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Entrance Exam 2023

B.Sc Nursing/ GNM

Best E-Book

BEST E-BOOK

B.Sc Nursing / GNM / D.pharm Entrance Examination

2023-24

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Subject – Physics, Chemistry, Biology, English, Aptitude of Nursing & General Science

Now Total Question = 2600+

Question Type: (MCQ)'s & short questions with answers

Preparing this **E-book** Named **B.Sc Nursing/ GNM/ D.Pharm Entrance Examination 2023-24** and we have covered Subject wise questions and answer from **Physics, Chemistry, Biology, English, General Science, Aptitude of Nursing & General Science** subjects with a multitude Multiple choice questions (MCQ) & short questions with answers related to the topic and we hope our making this E-Book are paid off if the examines receive help in their preparation for the forthcoming B.Sc Nursing/ GNM & D.Pharm Entrance Examination.

We are wishing you all a magnificent success in the forthcoming B.Sc Nursing/GNM & D.pharm Entrance Examinations and have a prosperous career ahead.

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1. What is the chemical name of Bleaching powder?

- a) Calcium Chloride
- b) Calcium Chlorate
- c) Calcium hypochlorite

d) Ans: c) Calcium hypochlorite

2. What is the name of the Instrument to measure air pressure?

Ans: Barometer

3. Which among the following is a biodegradable polymer?

Ans: Nylon-2-nylon-6

4. Which among the following is an essential amino acid?

Ans: Lysine

5. The product obtained when glucose is treated with bromine water is

Ans: Gluconic acid

6. The vitamin which has a metal atom in it is

Ans: Vitamin B12

7. Name of the element used as filament in electronic bulb

Ans: Tungsten

8. HIV AIDS transmitted through all of the following modes except

Ans: Blood transfusion

09. Which of the following are the smallest bones of human body?

Ans: Ear Ossicles

10. What is the largest organ of the body?

Ans: Skin

11. Which chamber of the human heart receives deoxygenated blood from the body?

Ans: Left atrium

12. Nephron is the structural and functional unit of the

Ans: kidney

13. Fusion of male and female gametes during fertilization creates a single cell, known as

Ans: zygote

14. What is the Chemical formula of baking soda

Ans: NaHCO_3

15. Name of the instrument that measure the depth of ocean?

Ans: Fathometer

16. The velocity of the sound is highest in

a) Metal

b) Air

c) Water

Ans: a) Metal

17. Which one is a naturally occurring noble gas

a) Argon

b) Boron

c) Sodium

Ans: A) Argon

18. If humanity increases, the velocity of sound in Air

a) Increases

b) Decreases

c) Remains the same

Ans: a) Increases

19. Speed never

a) Zero

b) Fraction

c) Negative

d) Positive

Ans: Negative

20. Mechanical Energy is converted into electric energy by

a) Voltmeter

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b) Ammeter

c) Generator

d) Electronic motor

Ans: Generator

1. What is the SI unit of length?

Ans: Meter (m).

2. What is the SI unit of time?

Ans: Second (s).

3. What is the SI unit of mass?

Ans: Kilogram (kg).

4. What is the SI unit of electric current?

ANS: Ampere (A).

5. What is the SI unit of temperature?

Ans: Kelvin (K).

6. What is the formula for kinetic energy?

a. $KE = \frac{1}{2} mv^2$

b. $KE = mgh$

c. $KE = hf$

d. $KE = \frac{p^2}{2m}$

Answer: (a) $KE = \frac{1}{2} mv^2$

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7. What is the SI unit of electric charge?

- a. Ampere
- b. Coulomb
- c. Ohm
- d. Farad

Answer: (b) Coulomb

8. Which of the following is a scalar quantity?

- a. Velocity
- b. Force
- c. Acceleration
- d. Distance

Answer: d) Distance

9. A car is moving with a constant speed on a straight road. Which of the following statements is true?

- a. The car is not accelerating.
- b. The car's velocity is changing.
- c. The car is slowing down.
- d. The car is moving in a circle.

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Answer: a) The car is not accelerating

10. Which of the following organelles is responsible for producing ATP?

- A) Nucleus
- B) Golgi apparatus
- C) Mitochondria
- D) Ribosomes

Answer: C) Mitochondria

11. Which of the following is an example of a monosaccharide?

- A) Glucose
- B) Sucrose
- C) Starch
- D) Cellulose

Answer: A) Glucose

12. Which of the following is a characteristic of a prokaryotic cell?

- A) Presence of a nucleus
- B) Presence of membrane-bound organelles

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C) Presence of linear chromosomes

D) Presence of a cell wall

Answer: D) Presence of a cell wall

13. Which of the following is a component of the axial skeleton?

A) Humerus

B) Femur

C) Skull

D) Clavicle

Answer: C) Skull

14. What is the SI unit of luminous intensity?

Ans: Candela (cd).

15. What is the SI unit of amount of substance?

ANS: Mole (mol).

16. What is the SI unit of frequency?

Ans: Hertz (Hz).

17. What is the SI unit of energy?

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Ans: Joule (J).

18. What is the SI unit of power?

Ans: Watt (W).

19. What is the SI unit of pressure?

Ans: Pascal (Pa).

20. What is the SI unit of electric charge?

Ans: Coulomb (C).

21. Which of the following elements is a metalloid?

- A) Calcium
- B) Nitrogen
- C) Silicon
- D) Chlorine

Answer: C) Silicon

22. What is the chemical symbol for gold?

- A) Au
- B) Ag
- C) Cu
- D) Fe

Answer: A) Au

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23. What is the pH of a neutral solution?

- A) 0
- B) 7
- C) 14
- D) None of the above

Answer: B) 7

24. Which of the following is not a state of matter?

- A) Solid
- B) Liquid
- C) Gas
- D) Plasma

Answer: D) Plasma

25. Which of the following is a noble gas?

- A) Helium
- B) Oxygen
- C) Nitrogen
- D) Carbon

Answer: A) Helium

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26.Uses of Peak flow meter

A peak flow meter is an instrument used to measure the maximum flow rate of air that can be exhaled from the lungs, which can help monitor asthma and other respiratory conditions.

27.Uses of Pedometer

A pedometer is an instrument used to measure the number of steps taken during physical activity, which can help monitor physical fitness and activity levels.

28.Uses of goniometer

A goniometer is an instrument used to measure the range of motion of a joint, which can help diagnose and monitor joint problems.

29. Which of the following best describes Newton's First Law of Motion?

- a. An object at rest will remain at rest unless acted upon by an unbalanced force.
- b. The acceleration of an object is directly proportional to the net force acting on it.
- c. For every action, there is an equal and opposite reaction.
- d. An object in motion will remain in motion unless acted upon by an unbalanced force.

Answer: d) An object in motion will remain in motion unless acted upon by an unbalanced force.

30. What is the unit of power?

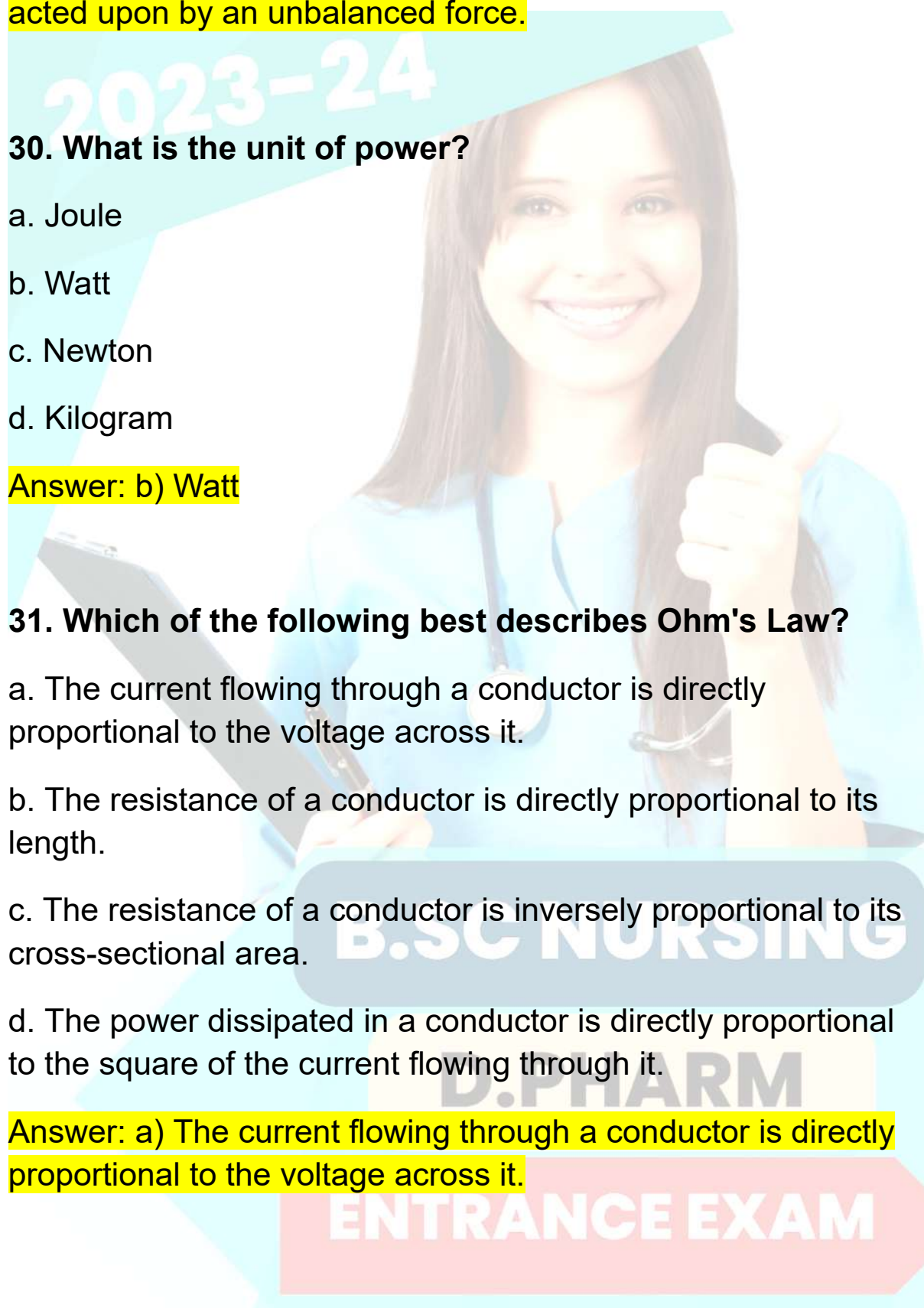
- a. Joule
- b. Watt
- c. Newton
- d. Kilogram

Answer: b) Watt

31. Which of the following best describes Ohm's Law?

- a. The current flowing through a conductor is directly proportional to the voltage across it.
- b. The resistance of a conductor is directly proportional to its length.
- c. The resistance of a conductor is inversely proportional to its cross-sectional area.
- d. The power dissipated in a conductor is directly proportional to the square of the current flowing through it.

Answer: a) The current flowing through a conductor is directly proportional to the voltage across it.



32. What is the principle of conservation of energy?

- a. Energy cannot be created or destroyed, only transformed from one form to another.
- b. Energy always flows from hot to cold objects.
- c. The amount of work done by a force is equal to the change in kinetic energy of an object.
- d. The rate of change of momentum of an object is proportional to the force applied to it.

Answer: a) Energy cannot be created or destroyed, only transformed from one form to another.

33. Which of the following best describes the law of reflection?

- a. The angle of incidence is equal to the angle of refraction.
- b. The angle of incidence is equal to the angle of reflection.
- c. The speed of light is constant in a vacuum.
- d. The frequency of light does not change when it passes through a medium.

Answer: b) The angle of incidence is equal to the angle of reflection

34. Which of the following is an example of an involuntary muscle?

- A) Skeletal muscle

- B) Smooth muscle
- C) Cardiac muscle
- D) None of the above

Answer: B) Smooth muscle

35. Which of the following is an example of an accessory organ in the digestive system?

- A) Esophagus
- B) Stomach
- C) Small intestine
- D) Pancreas

Answer: D) Pancreas

36. Which of the following is responsible for regulating blood glucose levels?

- A) Insulin
- B) Glucagon
- C) Both insulin and glucagon
- D) None of the above

Answer: C) Both insulin and glucagon

37. Which of the following structures is responsible for gas exchange in the respiratory system?

A) Bronchi

B) Alveoli

C) Trachea

D) Larynx

Answer: B) Alveoli

38. Which of the following is a characteristic of a passive transport mechanism?

A) Requires energy input from the cell

B) Movement of molecules against a concentration gradient

C) Movement of molecules from an area of low concentration to an area of high concentration

D) Movement of molecules from an area of high concentration to an area of low concentration

Answer: D) Movement of molecules from an area of high concentration to an area of low concentration

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39. What is the SI unit of electric potential?

Ans: Volt (V).

40. What is the SI unit of capacitance?

Ans: Farad (F).

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41. What is the SI unit of resistance?

Ans: Ohm (Ω).

42. What is the SI unit of magnetic flux?

Ans: Weber (Wb).

43. What is the SI unit of magnetic field strength?

Ans: Tesla (T).

44. What is the SI unit of electric conductance?

Ans: siemens (S).

What is the formula for methane?

A) CH₄

B) CO₂

C) H₂O

D) C₂H₅OH

Answer: A) CH₄

45. Which of the following is a physical change?

A) Burning wood

B) Digesting food

C) Melting ice

D) Rusting iron

Answer: C) Melting ice

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46. Which of the following is not a compound?

- A) Water
- B) Carbon dioxide
- C) Oxygen
- D) Sodium chloride

Answer: C) Oxygen

47. What is the formula for sodium chloride?

- A) NaCl
- B) HCl
- C) NaOH
- D) H₂SO₄

Answer: A) NaCl

48. Which of the following is an acid?

- A) Vinegar
- B) Baking soda
- C) Soap
- D) Salt

Answer: A) Vinegar

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49. Which of the following best describes the Doppler effect?

- a. The apparent change in frequency of a wave due to the motion of the source or observer.
- b. The reflection of light waves from a surface.
- c. The bending of light waves as they pass through a medium.
- d. The interference of two or more waves.

Answer: a) The apparent change in frequency of a wave due to the motion of the source or observer

50. Which of the following is an example of a non-conservative force?

- a. Gravitational force
- b. Elastic force
- c. Frictional force
- d. Electric force

Answer: c) Frictional force

51. Which of the following is an example of a longitudinal wave?

- a. Light wave
- b. Water wave

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c. Sound wave

d. Seismic wave

Answer: c) Sound wave

52. Which of the following best describes Newton's Third Law of Motion?

a. An object at rest will remain at rest unless acted upon by an unbalanced force.

b. The acceleration of an object is directly proportional to the net force acting on it.

c. For every action, there is an equal and opposite reaction.

d. An object in motion will remain in motion unless acted upon by an unbalanced force.

Answer: c) For every action, there is an equal and opposite reaction.

53. Which of the following best describes the law of conservation of momentum?

a. The total momentum of a system remains constant unless acted upon by an external force.

b. The amount of work done by a force is equal to the change in kinetic energy of an object.

c. Energy cannot be created or destroyed, only transformed from one form to another.

d. The rate of change of momentum of an object is proportional to the force applied to it.

Answer: a) The total momentum of a system remains constant unless acted upon by an external force

54. Which of the following is an example of a neurotransmitter in the nervous system?

- A) Acetylcholine
- B) Insulin
- C) Glucagon
- D) Epinephrine

Answer: A) Acetylcholine

55. Which of the following is responsible for producing eggs in the female reproductive system?

- A) Ovaries
- B) Uterus
- C) Cervix
- D) Vagina

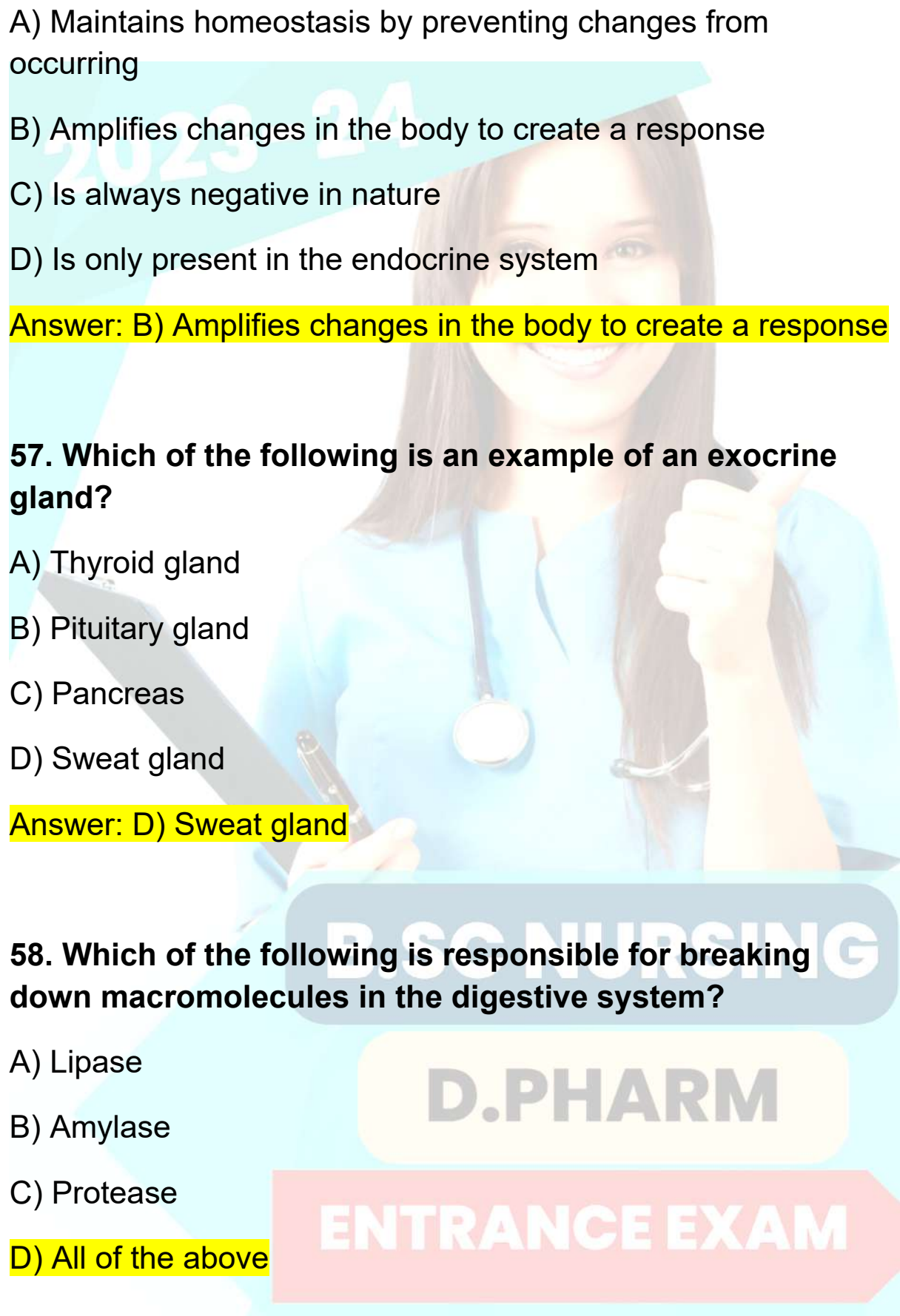
Answer: A) Ovaries

56. Which of the following is a characteristic of a feedback mechanism in the body?

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- 
- A) Maintains homeostasis by preventing changes from occurring
- B) Amplifies changes in the body to create a response
- C) Is always negative in nature
- D) Is only present in the endocrine system

Answer: B) Amplifies changes in the body to create a response

57. Which of the following is an example of an exocrine gland?

- A) Thyroid gland
- B) Pituitary gland
- C) Pancreas
- D) Sweat gland

Answer: D) Sweat gland

58. Which of the following is responsible for breaking down macromolecules in the digestive system?

- A) Lipase
- B) Amylase
- C) Protease

D) All of the above

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59. What is the SI unit of magnetic flux density?

Ans: Tesla (T).

60. What is the SI unit of electric field strength?

Ans: Volt per meter (V/m)

61. What is the SI unit of angular frequency?

Ans: Radians per second (rad/s).

62. What is the SI unit of torque?

Ans: Newton meter (Nm).

63. What is the SI unit of angular displacement?

Ans: Radians (rad).

64. What is the SI unit of moment of inertia?

Ans: Kilogram square meter (kg m^2).

65. What is the SI unit of velocity?

Ans: Meters per second (m/s).

66.Uses of refractometer

A refractometer is an instrument used to measure the refractive index of a liquid, which can help monitor conditions such as diabetes and dehydration.

67.Uses of audiometer

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An audiometer is an instrument used to measure hearing function, including the ability to detect and distinguish different frequencies and volumes of sound.

68. Uses of pulse oximeter

A pulse oximeter is an instrument used to measure oxygen saturation in the blood, usually by clipping onto a finger or earlobe.

69. Which of the following is an example of a vector quantity?

- a. Temperature
- b. Time
- c. Velocity
- d. Energy

Answer: c) Velocity

70. What is the formula for calculating electric potential energy?

- a. $PE = mgh$
- b. $PE = \frac{1}{2} mv^2$
- c. $PE = qV$
- d. $PE = hf$

Answer: c) $PE = qV$

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71. Which of the following best describes the law of gravitation?

- a. The force of attraction between two objects is directly proportional to the product of their masses and inversely proportional to the square of the distance between them.
- b. The pressure of a gas is inversely proportional to its volume at constant temperature.
- c. The amount of heat added to a system is equal to its change in internal energy plus the work done on it.
- d. The rate of diffusion of a gas is directly proportional to its molar mass.

Answer: a) The force of attraction between two objects is directly proportional to the product of their masses and inversely proportional to the square of the distance between them.

72. What is the formula for calculating the frequency of a wave?

- a. $f = c/v$
- b. $f = \lambda/c$
- c. $f = E/h$
- d. $f = 1/T$

Answer: d) $f = 1/T$

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73.Which of the following best describes the photoelectric effect?

- a. The emission of electrons from a metal surface when it is exposed to light of a certain frequency.
- b. The emission of light by an excited atom as its electrons return to their ground state.
- c. The bending of light waves as they pass through a medium.
- d. The reflection of light waves from a surface.

Answer: a) The emission of electrons from a metal surface when it is exposed to light of a certain frequency.

74.Uses of pachymeter

A pachymeter is an instrument used to measure the thickness of the cornea, which can help diagnose and monitor conditions such as glaucoma.

75.Uses of caliper

A caliper is an instrument used to measure the distance between two opposite sides of an object or the size of an opening, such as the width of an artery

Which of the following is an example of a chemical change?

- A) Cutting paper
- B) Freezing water
- C) Burning wood
- D) Melting chocolate

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Answer: C) Burning wood

76. Which of the following is a strong acid?

- A) HCl
- B) H₂O
- C) CH₃COOH
- D) NH₃

Answer: A) HCl

77. What is the formula for sulfuric acid?

- A) HCl
- B) H₂SO₄
- C) HNO₃
- D) H₃PO₄

Answer: B) H₂SO₄

78. What is the name of the process that involves the conversion of a liquid into a gas?

- A) Condensation
- B) Sublimation
- C) Vaporization

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D) Freezing

Answer: C) Vaporization

79. Which of the following is an example of a heterogeneous mixture?

- A) Saltwater
- B) Sugar water
- C) Air
- D) Sand and water

Answer: D) Sand and water

80. What is the SI unit of acceleration?

Ans: Meters per second squared (m/s^2).

81. What is the SI unit of force?

Ans: Newton (N).

82. What is the SI unit of work?

Ans: Joule (J).

83. What is the SI unit of electric field?

Ans: Newtons per coulomb (N/C).

84. What is the SI unit of magnetic field?

Ans: Tesla (T).

85. What is the SI unit of electric current density?

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Ans: amperes per square meter (A/m^2).

86. Which of the following is an example of a plant hormone?

- A) Insulin
- B) Adrenaline
- C) Auxin
- D) Testosterone

Answer: C) Auxin

87. Which of the following is responsible for carrying oxygen in the blood?

- A) White blood cells
- B) Platelets
- C) Red blood cells
- D) Plasma

Answer: C) Red blood cells

88. Which of the following is a characteristic of an active transport mechanism?

- A) Movement of molecules from an area of high concentration to an area of low concentration

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B) Requires energy input from the cell

C) Movement of molecules against a concentration gradient

D) Movement of molecules from an area of low concentration to an area of high concentration

Answer: B) Requires energy input from the cell

89. Which of the following is an example of a steroid hormone?

A) Thyroid hormone

B) Epinephrine

C) Estrogen

D) Growth hormone

Answer: C) Estrogen

91. Which of the following is responsible for producing sperm in the male reproductive system?

A) Testes

B) Penis

C) Vas deferens

D) Prostate gland

Answer: A) Testes

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92. What is the chemical formula for glucose?

A) $C_6H_{12}O_6$

B) CH_4

C) H_2O

D) CO_2

Answer: A) $C_6H_{12}O_6$

93. Which of the following is a noble metal?

A) Gold

B) Copper

C) Iron

D) Zinc

Answer: A) Gold

94. What is the formula for carbon monoxide?

A) CO_2

B) CO

C) C_2H_5OH

D) CH_4

Answer: B) CO

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95. Which of the following is a physical property of matter?

- A) Reactivity with oxygen
- B) Density
- C) Flammability
- D) Ability to corrode

Answer: B) Density

96. Which of the following is a common greenhouse gas?

- A) Oxygen
- B) Nitrogen
- C) Carbon dioxide
- D) Helium

Answer: C) Carbon dioxide

97. What is the SI unit of magnetic field strength in air?

Ans: Ampere per meter (A/m).

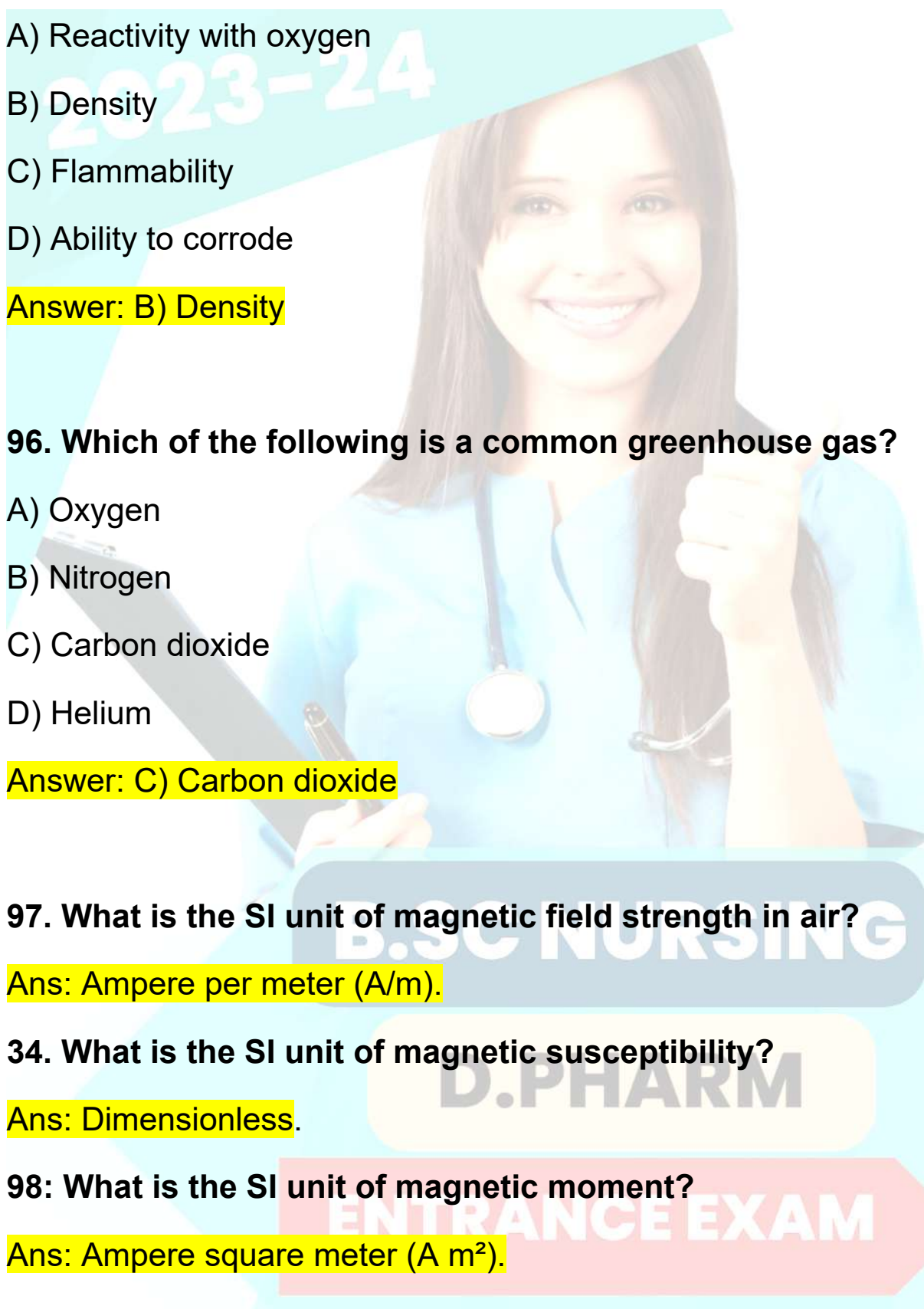
34. What is the SI unit of magnetic susceptibility?

Ans: Dimensionless.

98: What is the SI unit of magnetic moment?

Ans: Ampere square meter ($A\ m^2$).

99. What is the SI unit of magnetic permeability?



Ans: Henry per meter (H/m).

100. What is the SI unit of heat capacity?

Ans: Joules per kelvin (J/K).

101. What is the SI unit of power?

Ans: Watt (W).

102. What is the SI unit of electric charge?

Ans: Coulomb (C).

103. Which of the following best describes the first law of thermodynamics?

- a. Energy cannot be created or destroyed, only transformed from one form to another.
- b. The rate of change of momentum of an object is proportional to the force applied to it.
- c. The amount of work done by a force is equal to the change in kinetic energy of an object.

Ans: d). The change in internal energy of a system is equal to the heat added to it minus the work done by it.

104. Which of the following best describes the difference between AC and DC electrical circuits?

- a. AC circuits have a constant voltage and DC circuits have a changing voltage.

b. AC circuits have a changing voltage and DC circuits have a constant voltage.

c. AC circuits have a higher current and DC circuits have a lower current.

d. AC circuits have a lower current and DC circuits have a higher current.

Answer: b) AC circuits have a changing voltage and DC circuits have a constant voltage.

105. What is the formula for calculating the period of a wave?

a. $T = 1/f$

b. $T = \lambda/f$

c. $T = c/v$

d. $T = E/h$

Answer: a

106. Which of the following best describes the photoelectric effect?

a. The emission of electrons from a metal surface when it is exposed to light of a certain frequency.

b. The emission of light by an excited atom as its electrons return to their ground state.

- c. The bending of light waves as they pass through a medium.
- d. The reflection of light waves from a surface.

Answer: a) The emission of electrons from a metal surface when it is exposed to light of a certain frequency

107. What is the formula for calculating electric power?

- a. $P = VI$
- b. $P = V^2/R$
- c. $P = I^2R$
- d. $P = E/t$

Answer: b) . $P = V^2/R$

108. What is the formula for calculating the frequency of a simple harmonic oscillator?

- a. $f = (1/2\pi)\sqrt{(k/m)}$
- b. $f = (1/\pi)\sqrt{(k/m)}$
- c. $f = (2\pi)\sqrt{(k/m)}$
- d. $f = (\pi)\sqrt{(k/m)}$

Answer: a) $f = (1/2\pi)\sqrt{(k/m)}$

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109. Which of the following is an example of a type of connective tissue?

A) Epithelial tissue

B) Nervous tissue

C) Muscle tissue

D) Bone tissue

Answer: D) Bone tissue

110. Which of the following is a characteristic of a virus?

A) Contains a nucleus

B) Can reproduce on its own

C) Is not considered a living organism

D) Is made up of cells

Answer: C) Is not considered a living organism

111. Which of the following is responsible for producing milk in the mammary glands?

A) Oxytocin

B) Estrogen

C) Progesterone

D) Prolactin

Answer: D) Prolactin

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112. Which of the following is responsible for maintaining the shape of the cell and protecting it from external damage?

- A) Nucleus
- B) Ribosome
- C) Cell membrane
- D) Cytoplasm

Answer: C) Cell membrane

113. Which of the following is a characteristic of the endocrine system?

- A) Produces hormones that are transported through ducts to target organs
- B) Uses electrical impulses to transmit signals throughout the body
- C) Produces hormones that act as chemical messengers to target cells and organs
- D) Is responsible for movement and coordination in the body

Answer: C) Produces hormones that act as chemical messengers to target cells and organs

114. Which of the following is an example of a renewable resource?

- A) Coal

B) Oil

C) Natural gas

D) Solar energy

Answer: D) Solar energy

115. Which of the following is responsible for producing the myelin sheath in the nervous system?

A) Schwann cells

B) Astrocytes

C) Microglia

D) Oligodendrocytes

Answer: D) Oligodendrocytes

116. Which of the following is responsible for producing bile in the digestive system?

A) Pancreas

B) Liver

C) Stomach

D) Small intestine

Answer: B) Liver

117. Which of the following is an example of a type of muscle tissue?

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A) Epithelial tissue

B) Nervous tissue

C) Smooth muscle tissue

D) Bone tissue

Answer: C) Smooth muscle tissue

118. Which of the following is the functional unit of the kidney?

A) Nephron

B) Alveoli

C) Tubule

D) Ureter

Answer: A) Nephron

119. Which of the following is responsible for secreting insulin in the endocrine system?

A) Pancreas

B) Thyroid gland

C) Adrenal gland

D) Pineal gland

Answer: A) Pancreas

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120. Which of the following is responsible for carrying information from the brain to the rest of the body?

- A) Sensory neurons
- B) Motor neurons
- C) Interneurons
- D) Glial cells

Answer: B) Motor neurons

121. Which of the following is a characteristic of meiosis?

- A) Results in the production of two identical daughter cells
- B) Only occurs in somatic cells
- C) Results in the production of four haploid daughter cells
- D) Involves one division of the cell

Answer: C) Results in the production of four haploid daughter cells

122. Which of the following is an example of a type of epithelial tissue?

- A) Smooth muscle tissue
- B) Nervous tissue
- C) Squamous epithelium
- D) Cardiac muscle tissue

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Answer: C) Squamous epithelium

123. Which of the following is responsible for producing the hormone progesterone in the female reproductive system?

- A) Ovary
- B) Uterus
- C) Cervix
- D) Vagina

Answer: A) Ovary

124. Which of the following is an example of an abiotic factor in an ecosystem?

- A) Soil
- B) Plants
- C) Animals
- D) Bacteria

Answer: A) Soil

125. Which of the following is the site of gas exchange in the respiratory system?

- A) Larynx
- B) Pharynx

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C) Alveoli

D) Trachea

Answer: C) Alveoli

126. What is the SI unit of electric potential?

Ans: Volt (V).

127. What is the SI unit of electric resistance?

Ans: Ohm (Ω).

128. What is the SI unit of electric conductance?

Ans: Siemens (S).

129. What is the SI unit of electric capacitance?

Ans: Farad (F).

130. What is the SI unit of electric current?

Ans: Ampere (A).

131. What is the SI unit of frequency?

Ans: Hertz (Hz).

132. What is the SI unit of wavelength?

Ans: Meters (m).

133. What is the SI unit of pressure?

Ans: Pascals (Pa).

134. What is the SI unit of density?

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Ans: Kilograms per cubic meter (kg/m^3).

135. What is the SI unit of temperature?

Ans: Kelvin (K).

136. What is the atomic number of carbon?

- A) 6
- B) 8
- C) 12
- D) 16

Answer: A) 6

137. What is the formula for hydrochloric acid?

- A) H_2SO_4
- B) HCl
- C) HNO_3
- D) H_3PO_4

Answer: B) HCl

138. Which of the following is an example of a homogeneous mixture?

- A) Sand and water

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B) Oil and water

C) Salt and pepper

D) Air

Answer: D) Air

139. Which of the following is a halogen?

A) Carbon

B) Nitrogen

C) Chlorine

D) Sodium

Answer: C) Chlorine

140. What is the chemical formula for water?

A) HCl

B) H_2SO_4

C) HNO_3

D) H_2O

Answer: D) H_2O

141. Which of the following is a base?

A) HCl

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B) NaOH

C) H₂SO₄

D) CH₃COOH

Answer: B) NaOH

142. Which of the following is a physical change?

A) Rusting of iron

B) Burning of wood

C) Digesting food

D) Melting ice

Answer: D) Melting ice

143. What is the formula for sulfur dioxide?

A) SO₂

B) CO₂

C) NO₂

D) H₂SO₄

Answer: A) SO₂

144. What is the name of the process that involves the separation of a liquid mixture into its components based on their boiling points?

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A) Sublimation

B) Filtration

C) Distillation

D) Chromatography

Answer: C) Distillation

145. Which of the following is a noble gas?

A) Oxygen

B) Neon

C) Chlorine

D) Sodium

Answer: B) Neon

146. What is the chemical symbol for gold?

A) Ag

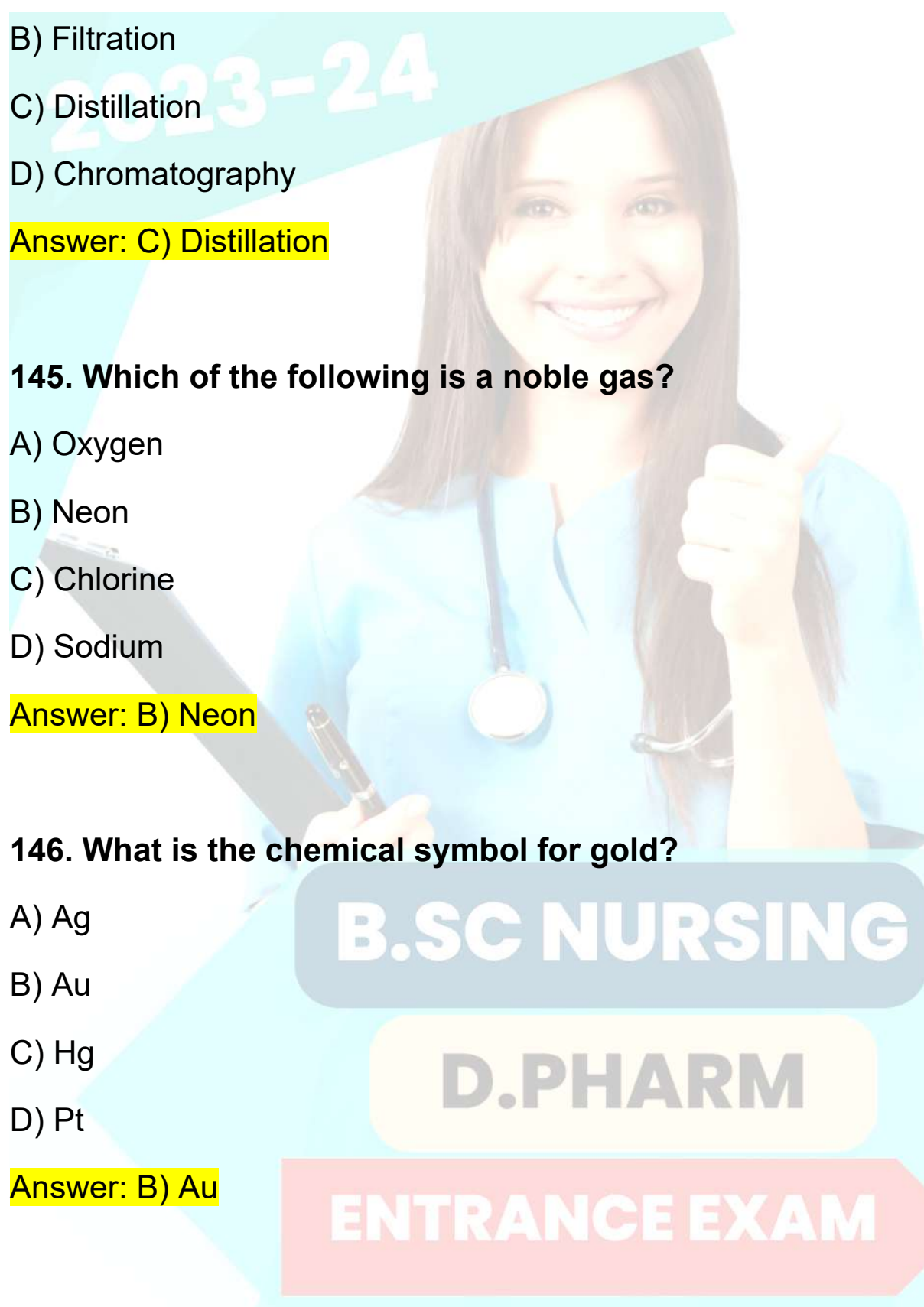
B) Au

C) Hg

D) Pt

Answer: B) Au

147. What is the molecular formula for methane?



- A) CH₄
B) C₂H₆
C) C₃H₈
D) C₄H₁₀

Answer: A) CH₄

148. Which of the following is an example of a scalar quantity?

- a. Velocity
b. Force
c. Work
d. Acceleration

Answer: c) Work

149. Which of the following best describes the relationship between wavelength and frequency of a wave?

- a. As wavelength increases, frequency increases.
b. As wavelength increases, frequency decreases.
c. As wavelength decreases, frequency increases.
d. As wavelength decreases, frequency decreases.

Answer: c) As wavelength decreases, frequency increases.

150. What is the formula for calculating the force of gravity between two objects?

a. $F = G(m_1m_2)/d^2$

b. $F = m_1a_1$

c. $F = mv^2/r$

d. $F = kq_1q_2/d^2$

Answer: a) $F = G(m_1m_2)/d^2$

151. Which of the following best describes Ohm's Law?

a. The current through a conductor between two points is directly proportional to the voltage across the two points.

b. The resistance of a conductor is directly proportional to its length and inversely proportional to its cross-sectional area.

c. The power dissipated by a circuit element is equal to the product of the current through it and the voltage across it.

d. The total resistance of a series circuit is equal to the sum of the individual resistances.

Answer: a

Which of the following best describes the difference between weight and mass?

a. Weight is a measure of the force of gravity on an object, while mass is a measure of the amount of matter in an object.

b. Weight is a measure of the amount of matter in an object, while mass is a measure of the force of gravity on an object.

- c. Weight and mass are two different terms for the same physical property.
- d. Weight and mass are only applicable to subatomic particles and not macroscopic objects.

Answer: a

152. Which of the following best describes the relationship between power and energy?

- a. Power is the rate at which energy is transferred or transformed.
- b. Power is the amount of energy stored in a system.
- c. Energy is the rate at which power is transferred or transformed.
- d. Energy and power are two different terms for the same physical property.

Answer: a) Power is the rate at which energy is transferred or transformed.

153. What is the formula for calculating the kinetic energy of an object?

- a. $K = mv$
- b. $K = \frac{1}{2}mv^2$
- c. $K = mgh$
- d. $K = Fd$

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Answer: b) $K = \frac{1}{2}mv^2$

154. Which of the following best describes the relationship between pressure, volume, and temperature of a gas?

- a. The pressure of a gas is directly proportional to its volume and temperature.
- b. The volume of a gas is directly proportional to its pressure and temperature.
- c. The temperature of a gas is directly proportional to its pressure and volume.
- d. The pressure of a gas is inversely proportional to its volume and temperature.

Answer: c) The temperature of a gas is directly proportional to its pressure and volume.

155. What is the formula for calculating the efficiency of a machine?

- a. $\eta = W/Q_h$
- b. $\eta = Q_h/W$
- c. $\eta = W/Q_c$
- d. $\eta = Q_c/W$

Answer: a) $\eta = W/Q_h$

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156. Which of the following best describes the law of conservation of energy?

- a. Energy cannot be created or destroyed, only transformed from one form to another.
- b. Energy cannot be created, but it can be destroyed.
- c. Energy can be created, but it cannot be destroyed.
- d. Energy is only conserved in closed systems.

Answer: a) Energy cannot be created or destroyed, only transformed from one form to another.

157. What is the formula for calculating the work done on an object by a constant force?

- a. $W = Fd$
- b. $W = Fv$
- c. $W = mv^2/2$
- d. $W = 1/2mv^2$

Answer: a) $W = Fd$

158. Which of the following best describes the relationship between potential difference, current, and resistance in a circuit?

- a. Potential difference is directly proportional to current and resistance.

- b. Current is directly proportional to potential difference and inversely proportional to resistance.
- c. Resistance is directly proportional to potential difference and inversely proportional to current.
- d. Potential difference is inversely proportional to current and resistance.

Answer: b

159. What is the formula for calculating the period of a wave?

- a. $T = \lambda v$
- b. $T = 2\pi/\lambda$
- c. $T = 2\pi f$
- d. $T = 1/f$

Answer: d) $T = 1/f$

160. Which of the following best describes the relationship between force, mass, and acceleration?

- a. Force is directly proportional to mass and inversely proportional to acceleration.
- b. Mass is directly proportional to force and acceleration.
- c. Acceleration is directly proportional to force and inversely proportional to mass.
- d. Force is inversely proportional to both mass and acceleration

161. What is the formula for calculating the velocity of an object in circular motion?

- a. $v = 2\pi r/T$
- b. $v = r\omega$
- c. $v = aT$
- d. $v = \Delta x/\Delta t$

Answer: b) $v = r\omega$

162. What is the formula for calculating the equivalent resistance of resistors connected in parallel?

- a. $R = R_1 + R_2$
- b. $R = R_1 \times R_2$
- c. $1/R = 1/R_1 + 1/R_2$
- d. $1/R = 1/R_1 \times 1/R_2$

Answer: c) $1/R = 1/R_1 + 1/R_2$

163. What is the SI unit of time?

Ans: Seconds (s).

164. What is the SI unit of distance?

Ans: Meters (m).

165. What is the SI unit of volume?

Ans: Cubic meters (m^3).

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166. What is the SI unit of area?

Ans: Meters (m^2).

167. What is the SI unit of electric flux?

Ans: Volt meter (V m).

168. What is the SI unit of electric field strength?

Ans: Volts per meter (V/m).

169. What is the SI unit of magnetic flux?

Ans: Weber (Wb).

170. What is the SI unit of magnetic field intensity?

Ans: Ampere per meter (A/m).

171. What is the SI unit of frequency of sound waves?

Ans: Hertz (Hz).

172. What is the SI unit of amplitude of sound waves?

Ans: Pascals (Pa).

173. What is the SI unit of sound pressure level?

Ans: Decibels (dB).

174. What is the SI unit of luminous intensity?

Ans: Candela (cd).

175. What is the SI unit of luminous flux?

Ans: Lumen (lm).

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176. Which of the following is responsible for producing antibodies in the immune system?

- A) B cells
- B) T cells
- C) Natural killer cells
- D) Macrophages

Answer: A) B cells

177. Which of the following is responsible for producing ATP in the cell?

- A) Ribosomes
- B) Nucleus
- C) Mitochondria
- D) Golgi apparatus

Answer: C) Mitochondria

400 Which of the following is a characteristic of the endoplasmic reticulum (ER)?

- A) It is responsible for protein synthesis in the cell
- B) It is involved in cell division
- C) It is responsible for lipid synthesis and detoxification
- D) It is involved in the packaging and transport of proteins

Answer: C) It is responsible for lipid synthesis and detoxification

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178. Which of the following is an example of a type of connective tissue?

- A) Adipose tissue
- B) Epithelial tissue
- C) Nervous tissue
- D) Smooth muscle tissue

Answer: A) Adipose tissue

179. Which of the following is responsible for secreting cortisol in the endocrine system?

- A) Pancreas
- B) Adrenal gland
- C) Thyroid gland
- D) Pineal gland

Answer: B) Adrenal gland

180. Which of the following is an example of a primary consumer in a food chain?

- A) Hawk
- B) Mouse

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C) Grass

D) Snake

Answer: B) Mouse

181. Which of the following is responsible for the breakdown of carbohydrates in the digestive system?

A) Amylase

B) Pepsin

C) Trypsin

D) Lipase

Answer: A) Amylase

182. Which of the following is responsible for producing the hormone testosterone in the male reproductive system?

A) Testes

B) Penis

C) Prostate gland

D) Scrotum

Answer: A) Testes

183. Which of the following is responsible for carrying oxygen in the blood?

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A) Red blood cells

B) White blood cells

C) Platelets

D) Plasma

Answer: A) Red blood cells

184. Which of the following is a characteristic of the nucleolus?

A) It is responsible for protein synthesis in the cell

B) It is involved in cell division

C) It is responsible for lipid synthesis and detoxification

D) It is involved in the production of ribosomes

Answer: D) It is involved in the production of ribosomes

185. Which of the following is an example of a type of muscle tissue?

A) Epithelial tissue

B) Connective tissue

C) Nervous tissue

D) Skeletal muscle tissue

Answer: D) Skeletal muscle tissue

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186. Which of the following is responsible for producing the hormone estrogen in the female reproductive system?

- A) Ovary
- B) Uterus
- C) Cervix
- D) Vagina

Answer: A) Ovary

187. Which of the following is an example of a secondary consumer in a food chain?

- A) Hawk
- B) Mouse
- C) Grass
- D) Snake

Answer: A) Hawk

189. Which of the following is responsible for producing the hormone insulin in the endocrine system?

- A) Pancreas
- B) Adrenal gland
- C) Thyroid gland
- D) Pineal gland

Answer: A) Pancreas

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190. Which of the following is responsible for producing the hormone melatonin in the endocrine system?

- A) Pancreas
- B) Adrenal gland
- C) Thyroid gland
- D) Pineal gland

Answer: D) Pineal gland

191. Which of the following is responsible for filtering blood in the urinary system?

- A) Kidney
- B) Bladder
- C) Ureter
- D) Urethra

Answer: A) Kidney

192. Which of the following is responsible for producing the hormone thyroxine in the endocrine system?

- A) Pancreas
- B) Adrenal gland
- C) Thyroid gland

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D) Pineal gland

Answer: C) Thyroid gland

194. Which of the following best describes the relationship between the refractive index of a material and the speed of light in that material?

- a. The refractive index is directly proportional to the speed of light in that material.
- b. The refractive index is inversely proportional to the speed of light in that material.
- c. The refractive index and speed of light in that material have no relationship to each other.
- d. The refractive index and speed of light in that material are only applicable to sound waves.

Answer: b) The refractive index is inversely proportional to the speed of light in that material

195. What is the formula for calculating the period of a simple pendulum?

- a. $T = 2\pi l/g$
- b. $T = l/g$
- c. $T = 2\pi/g$
- d. $T = g/2\pi l$

Answer: a) $T = 2\pi l/g$

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196. Which of the following best describes the relationship between the angle of incidence and the angle of refraction in Snell's law?

- a. The angle of incidence is equal to the angle of refraction.
- b. The angle of incidence is always greater than the angle of refraction.
- c. The angle of incidence is always less than the angle of refraction.
- d. The angle of incidence and angle of refraction are not related to each other.

Answer: c) The angle of incidence is always less than the angle of refraction

197. Which of the following is not a type of electromagnetic radiation?

- a. Gamma rays
- b. X-rays
- c. Sound waves
- d. Radio waves

Answer: c) Sound waves

198. What is the formula for calculating the power dissipated by a resistor in an electrical circuit?

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a. $P = V/I$

b. $P = VI$

c. $P = I^2R$

d. $P = V^2/R$

Answer: d) $P = V^2/R$

199. Which of the following best describes the relationship between the frequency and period of a wave?

a. Frequency and period are the same thing.

b. Frequency is the reciprocal of the period.

c. Frequency and period are inversely proportional to each other.

d. Frequency and period are not related to each other.

Answer: b

200. What is the formula for calculating the angular velocity of an object in circular motion?

a. $\omega = v/r$

b. $\omega = 2\pi r/T$

c. $\omega = 2\pi/T$

d. $\omega = F_{\text{net}}/mr$

Answer: b) $\omega = 2\pi r/T$

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201. Which of the following best describes the relationship between the electric field strength and the distance from a charged particle?

- a. The electric field strength is directly proportional to the distance from a charged particle.
- b. The electric field strength is inversely proportional to the distance from a charged particle.
- c. The electric field strength and the distance from a charged particle have no relationship to each other.
- d. The electric field strength and the distance from a charged particle are only applicable to sound waves.

Answer: b

202. What is the SI unit of illuminance?

Ans: Lux (lx).

203. What is the SI unit of activity of a radioactive source?

Ans: Becquerel (Bq).

204. What is the SI unit of dose equivalent of ionizing radiation?

Ans: sievert (Sv).

205. What is the SI unit of absorbed dose of ionizing radiation?

Ans: Gray (Gy)

206. What is the normal range of oxygen saturation in the blood?

Ans: Between 95% and 100%.

207. What is the SI unit of oxygen saturation in the blood?

Ans: Percent (%).

208. Which Instrument used to measure oxygen saturation in the blood

Ans: pulse Oximeter

209. What is the difference between an acid and a base?

A) Acids have a pH less than 7 and bases have a pH greater than 7

B) Acids have a pH greater than 7 and bases have a pH less than 7

C) Acids have a sour taste and bases have a bitter taste

D) Acids have a sweet taste and bases have a salty taste

Answer: A) Acids have a pH less than 7 and bases have a pH greater than 7

210. What is the chemical formula for ammonia?

A) NH_3

B) H_2O

C) CO₂

D) O₂

Answer: A) NH₃

211. Which of the following is an example of an exothermic reaction?

A) The reaction between baking soda and vinegar

B) The reaction between sodium and water

C) The reaction between magnesium and oxygen

D) The reaction between iron and sulfur

Answer: A) The reaction between baking soda and vinegar

212. What is the process by which a solid turns directly into a gas without going through the liquid phase?

A) Sublimation

B) Evaporation

C) Boiling

D) Condensation

Answer: A) Sublimation

213. What is the chemical formula for table salt?

A) NaCl

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B) KCl

C) CaCl_2

D) MgCl_2

Answer: A) NaCl

214. What is the chemical formula for glucose?

A) $\text{C}_6\text{H}_{12}\text{O}_6$

B) $\text{C}_2\text{H}_5\text{OH}$

C) CH_4

D) H_2O

Answer: A) $\text{C}_6\text{H}_{12}\text{O}_6$

215. Which of the following is an example of an alloy?

A) Gold

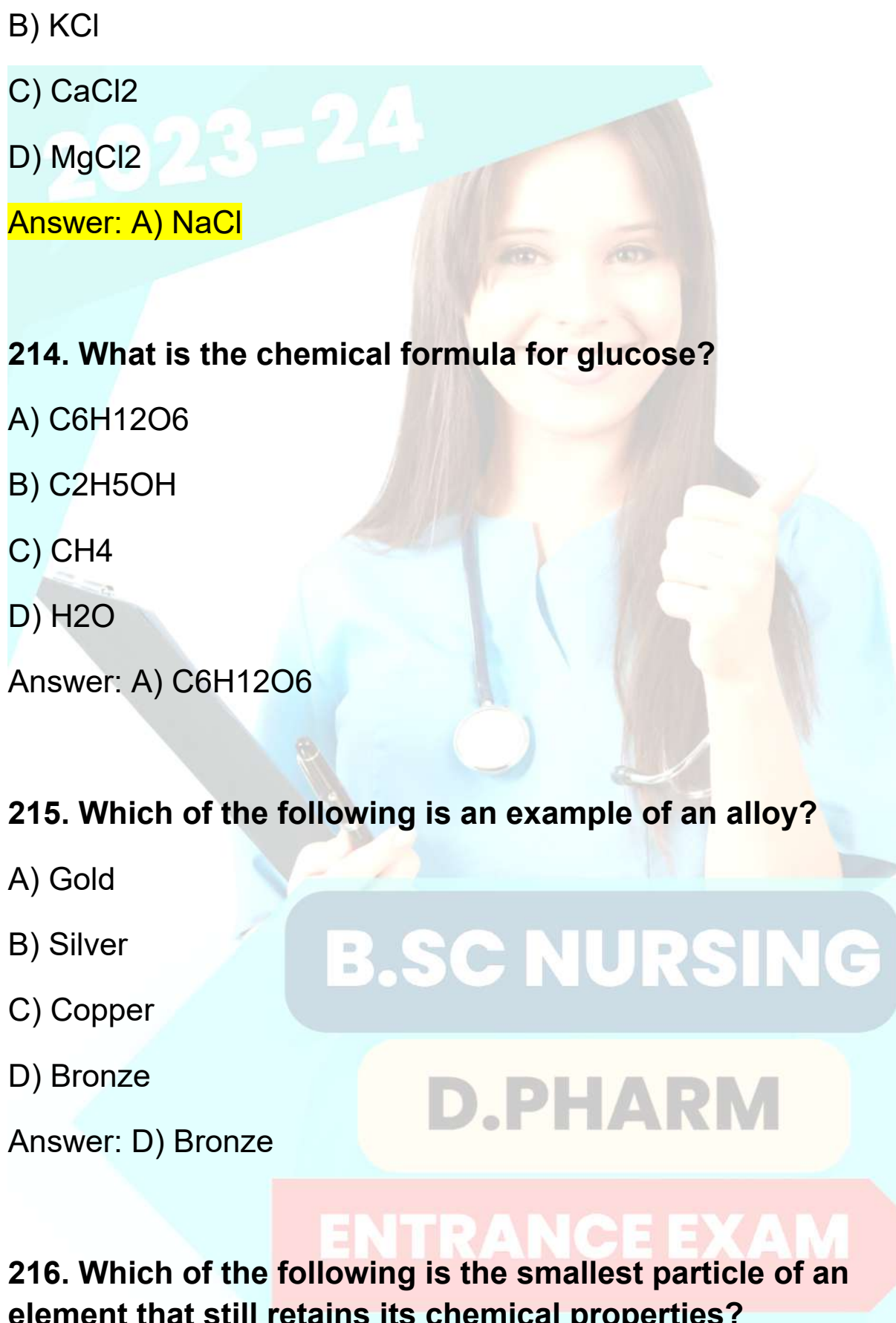
B) Silver

C) Copper

D) Bronze

Answer: D) Bronze

216. Which of the following is the smallest particle of an element that still retains its chemical properties?



A) Molecule

B) Atom

C) Ion

D) Electron

Answer: B) Atom

217. Which of the following is a noble gas?

A) Nitrogen

B) Oxygen

C) Argon

D) Chlorine

Answer: C) Argon

218. What is the molecular formula for water?

A) CO₂

B) NH₃

C) H₂O

D) CH₄

Answer: C) H₂O

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219. Which of the following is an example of a covalent bond?

- A) NaCl
- B) H₂O
- C) CaCl₂
- D) MgCl₂

Answer: B) H₂O

220. What is the chemical formula for carbon dioxide?

- A) CO₂
- B) H₂O
- C) O₂
- D) N₂

Answer: A) CO₂

221. Which of the following is the unit for measuring electrical charge?

- A) Joule
- B) Watt
- C) Coulomb
- D) Volt

Answer: C) Coulomb

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222. What is the formula for calculating the number of moles of a substance?

- A) Moles = Mass / Volume
- B) Moles = Volume / Mass
- C) Moles = Mass x Volume
- D) Moles = Volume - Mass

Answer: A) Moles = Mass / Volume

223. Which of the following is an example of a heterogeneous mixture?

- A) Salt water
- B) Lemonade
- C) Air
- D) Trail mix

Answer: D) Trail mix

224. Which of the following is an example of a type of epithelial tissue?

- A) Adipose tissue
- B) Nervous tissue
- C) Connective tissue

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D) Squamous epithelium

Answer: D) Squamous epithelium

225. Which of the following is responsible for breaking down proteins in the digestive system?

- A) Amylase
- B) Pepsin
- C) Trypsin
- D) Lipase

Answer: B) Pepsin

226. Which of the following is responsible for carrying impulses in the nervous system?

- A) Neurons
- B) Epithelial cells
- C) Smooth muscle cells
- D) Red blood cells

Answer: A) Neurons

227. Which of the following is responsible for the contraction of the heart in the circulatory system?

- A) Arteries

B) Veins

C) Capillaries

D) Cardiac muscle

Answer: D) Cardiac muscle

228. Which of the following is responsible for the synthesis of lipids in the cell?

A) Endoplasmic reticulum

B) Golgi apparatus

C) Mitochondria

D) Ribosomes

Answer: A) Endoplasmic reticulum

229. Which of the following is responsible for producing antibodies in the immune system?

A) T-cells

B) B-cells

C) Natural killer cells

D) Macrophages

Answer: B) B-cells

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230. Which of the following is responsible for carrying out photosynthesis in plant cells?

- A) Chloroplasts
- B) Mitochondria
- C) Ribosomes
- D) Nucleus

Answer: A) Chloroplasts

231. Which of the following is responsible for regulating blood glucose levels in the endocrine system?

- A) Insulin
- B) Glucagon
- C) Estrogen
- D) Progesterone

Answer: A) Insulin

232. Which of the following is responsible for the production of the hormone cortisol in the endocrine system?

- A) Adrenal gland
- B) Pancreas
- C) Thyroid gland

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D) Pineal gland

Answer: A) Adrenal gland

233. Which of the following is responsible for the breakdown of fats in the digestive system?

- A) Amylase
- B) Pepsin
- C) Trypsin
- D) Lipase

Answer: D) Lipase

234. Which of the following is a type of connective tissue found in the body?

- A) Smooth muscle
- B) Skeletal muscle
- C) Cardiac muscle
- D) Cartilage

Answer: D) Cartilage

235. Which of the following is the unit for measuring frequency?

- A) Hertz

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B) Newton

C) Joule

D) Pascal

Answer: A) Hertz

236. Which of the following is an example of a physical change?

A) Burning wood

B) Cooking an egg

C) Melting ice

D) Rusting metal

Answer: C) Melting ice

237. Which of the following is a metal?

A) Nitrogen

B) Oxygen

C) Gold

D) Chlorine

Answer: C) Gold

238. What is the chemical formula for methane?

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A) CO_2

B) NH_3

C) H_2O

D) CH_4

Answer: D) CH_4

239. Which of the following is an example of an ionic compound?

A) CO_2

B) H_2O

C) CaCl_2

D) NH_3

Answer: C) CaCl_2

240. What is the molecular formula for glucose?

A) $\text{C}_6\text{H}_{12}\text{O}_6$

B) CO_2

C) H_2O

D) CH_4

Answer: A) $\text{C}_6\text{H}_{12}\text{O}_6$

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241. Which of the following is the unit for measuring mass?

- A) Joule
- B) Watt
- C) Kilogram
- D) Volt

Answer: C) Kilogram

242. What is the formula for calculating density?

- A) Density = Mass x Volume
- B) Density = Mass / Volume
- C) Density = Volume x Mass
- D) Density = Volume / Mass

Answer: B) Density = Mass / Volume

243. Which of the following is an example of a homogeneous mixture?

- A) Salt water
- B) Lemonade
- C) Air
- D) Trail mix

Answer: A) Salt water

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244. Which of the following is responsible for the transport of oxygen in the circulatory system?

- A) White blood cells
- B) Red blood cells
- C) Platelets
- D) Plasma

Answer: B) Red blood cells

245. Which of the following is responsible for producing the hormone testosterone in the endocrine system?

- A) Adrenal gland
- B) Pancreas
- C) Testes
- D) Pituitary gland

Answer: C) Testes

247. Which of the following is responsible for carrying out cellular respiration in the cell?

- A) Mitochondria
- B) Endoplasmic reticulum
- C) Golgi apparatus
- D) Ribosomes

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Answer: A) Mitochondria

248. Which of the following is a type of sensory receptor found in the body?

- A) Motor neurons
- B) Interneurons
- C) Mechanoreceptors
- D) Schwann cells

Answer: C) Mechanoreceptors

249. Which of the following is responsible for producing the hormone estrogen in the endocrine system?

- A) Adrenal gland
- B) Pancreas
- C) Ovaries
- D) Pituitary gland

Answer: C) Ovaries

250. Which of the following is responsible for filtering air in the respiratory system?

- A) Trachea
- B) Bronchi

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C) Alveoli

D) Pharynx

Answer: C) Alveoli

251. Which of the following is responsible for the secretion of insulin in the endocrine system?

A) Adrenal gland

B) Pancreas

C) Thyroid gland

D) Parathyroid gland

Answer: B) Pancreas

252. Which of the following is responsible for producing the hormone melatonin in the endocrine system?

A) Adrenal gland

B) Pineal gland

C) Thyroid gland

D) Pituitary gland

Answer: B) Pineal gland

254. Which of the following is responsible for breaking down food in the digestive system?

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A) Stomach

B) Liver

C) Pancreas

D) Spleen

Answer: A) Stomach

255. Which of the following is responsible for producing the hormone progesterone in the endocrine system?

A) Adrenal gland

B) Pancreas

C) Ovaries

D) Pituitary gland

Answer: C) Ovaries

256. Which of the following is responsible for regulating the body's metabolism in the endocrine system?

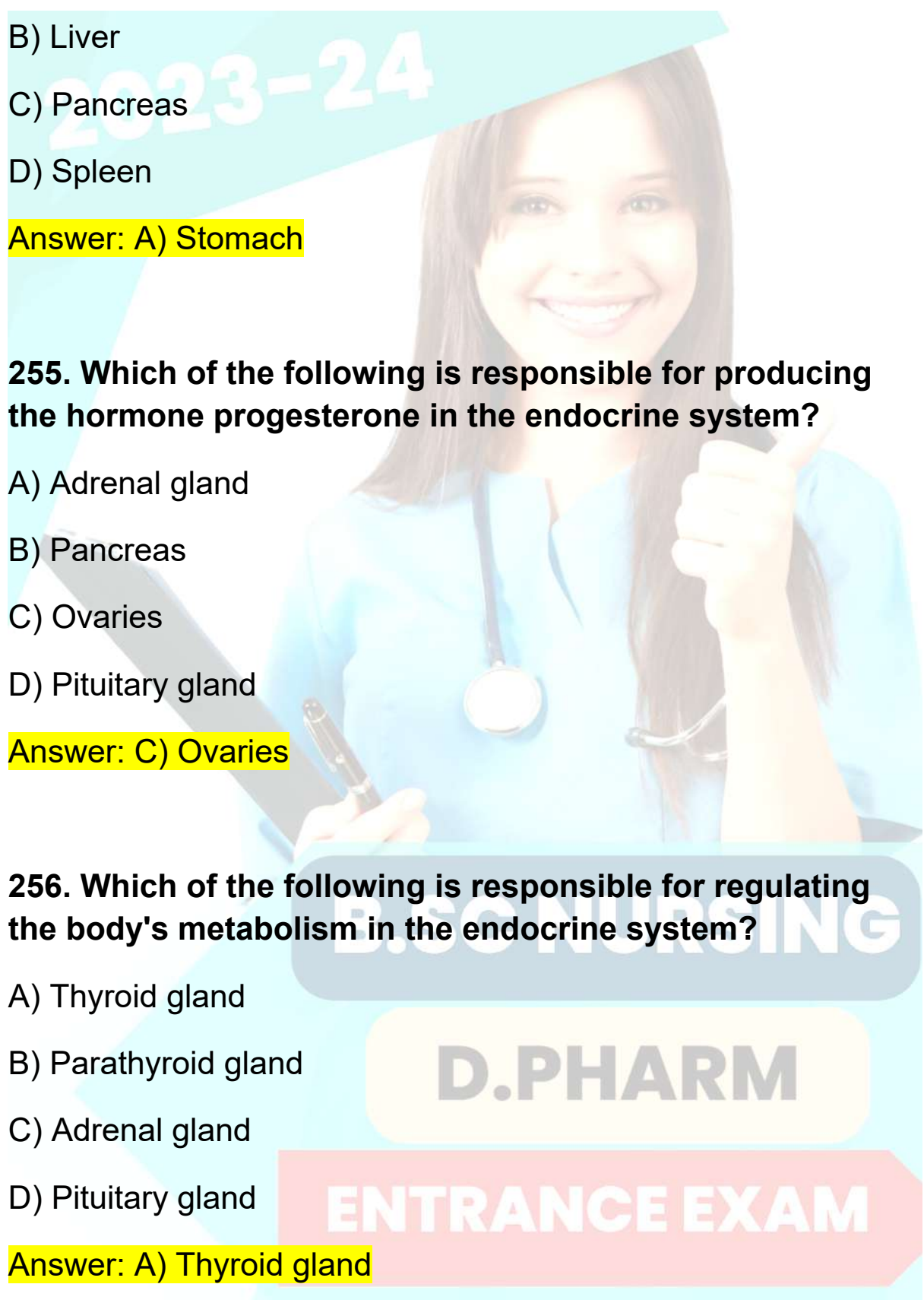
A) Thyroid gland

B) Parathyroid gland

C) Adrenal gland

D) Pituitary gland

Answer: A) Thyroid gland



257. Which of the following is responsible for carrying out protein synthesis in the cell?

- A) Ribosomes
- B) Mitochondria
- C) Endoplasmic reticulum
- D) Golgi apparatus

Answer: A) Ribosomes

258. Which of the following is responsible for producing the hormone cortisol in the endocrine system?

- A) Adrenal gland
- B) Pineal gland
- C) Thyroid gland
- D) Pituitary gland

Answer: A) Adrenal gland

259. Which of the following is responsible for carrying out photosynthesis in plant cells?

- A) Chloroplast
- B) Mitochondria
- C) Ribosomes
- D) Golgi apparatus

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Answer: A) Chloroplast

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260. Which of the following is the unit for measuring energy?

- A) Hertz
- B) Newton
- C) Joule
- D) Pascal

Answer: C) Joule

261. Which of the following is an example of a chemical change?

- A) Melting ice
- B) Boiling water
- C) Burning wood
- D) Cutting paper

Answer: C) Burning wood

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262. Which of the following is the unit for measuring the amount of a substance?

- A) Gram

ENTRANCE EXAM

B) Mole

C) Liter

D) Second

Answer: B) Mole

263. What is the process of converting a solid directly into a gas called?

A) Condensation

B) Sublimation

C) Evaporation

D) Freezing

Answer: B) Sublimation

264. Which of the following is an example of a nonmetal?

A) Iron

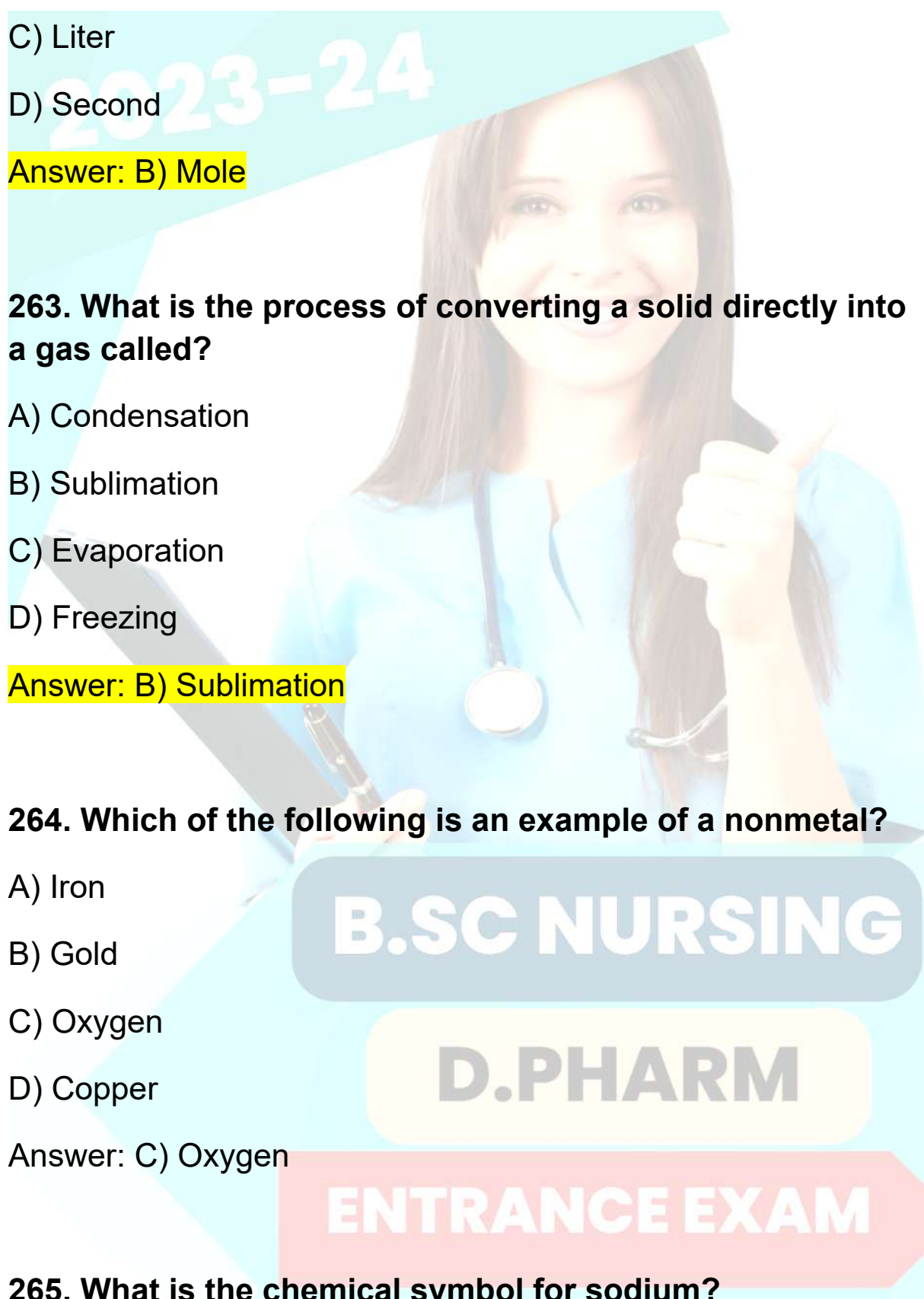
B) Gold

C) Oxygen

D) Copper

Answer: C) Oxygen

265. What is the chemical symbol for sodium?



A) N

B) Na

C) Ni

D) Nb

Answer: B) Na

266. Which of the following is a characteristic of a base?

A) Sour taste

B) Turns red litmus paper blue

C) Low pH

D) Reacts with metals to produce hydrogen gas

Answer: B) Turns red litmus paper blue

267. What is the formula for calculating pressure?

A) Pressure = Force / Mass

B) Pressure = Mass x Volume

C) Pressure = Force x Area

D) Pressure = Volume / Mass

Answer: C) Pressure = Force x Area

268. Which of the following is the unit for measuring temperature in the Celsius scale?

- A) Kelvin
- B) Degree
- C) Fahrenheit
- D) Joule

Answer: B) Degree

269. Which of the following is the unit for measuring electric charge?

- A) Ampere
- B) Volt
- C) Coulomb
- D) Watt

Answer: C) Coulomb

270. Which of the following is an example of a compound?

- A) Oxygen
- B) Nitrogen gas
- C) Carbon dioxide
- D) Hydrogen

Answer: C) Carbon dioxide

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271. Which of the following is a characteristic of a chemical reaction?

- A) No change in the physical state of the reactants
- B) No change in the chemical composition of the reactants
- C) Production of light and heat
- D) Reversibility of the reaction

Answer: C) Production of light and heat

272. What is the pH of a neutral solution?

- A) 0
- B) 1
- C) 7
- D) 14

Answer: C) 7

273. What is the process of separating a mixture into its individual components based on differences in their boiling points called?

- A) Distillation
- B) Filtration
- C) Chromatography

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D) Evaporation

Answer: A) Distillation

274. Which of the following is the unit for measuring the rate of a chemical reaction?

- A) Kelvin
- B) Joule
- C) Hertz
- D) Mole per second

Answer: D) Mole per second

275. Which of the following is the chemical formula for water?

- A) CO₂
- B) H₂O
- C) NaCl
- D) NH₃

Answer: B) H₂O

276. Which of the following is an example of a physical change?

- A) Rusting of iron

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B) Burning of wood

C) Melting of ice

D) Digestion of food

Answer: C) Melting of ice

277. Which of the following is the unit for measuring energy?

A) Watt

B) Joule

C) Volt

D) Coulomb

Answer: B) Joule

278. Which of the following is an example of a homogeneous mixture?

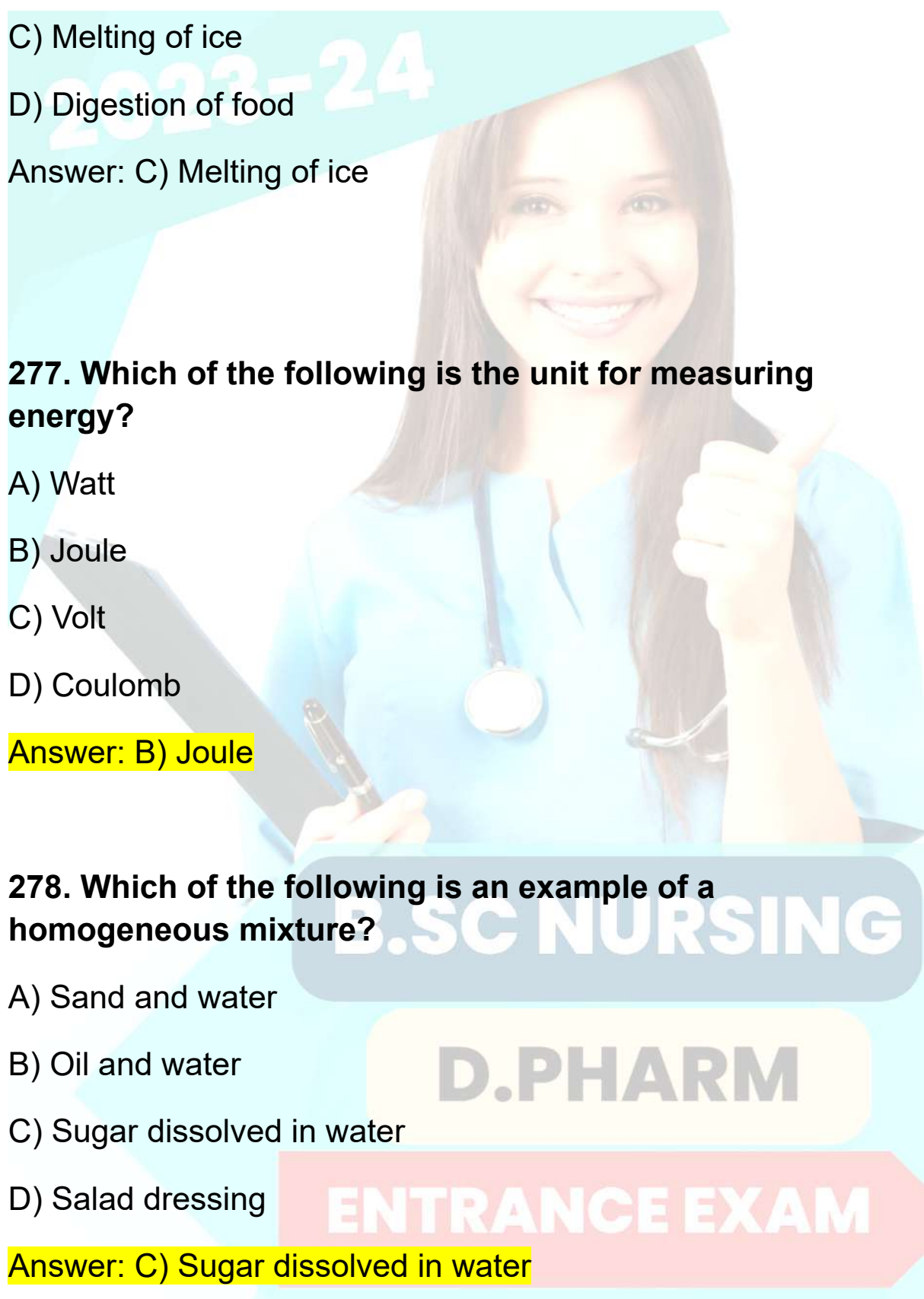
A) Sand and water

B) Oil and water

C) Sugar dissolved in water

D) Salad dressing

Answer: C) Sugar dissolved in water



279. Which of the following is the chemical symbol for carbon?

- A) C
- B) Ca
- C) Co
- D) Cu

Answer: A) C

280. What is the name of the process of a gas turning into a liquid?

- A) Condensation
- B) Evaporation
- C) Sublimation
- D) Melting

Answer: A) Condensation

281. What is the chemical formula for sulfuric acid?

- A) HNO_3
- B) H_2SO_4
- C) HCl

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D) CH₄

Answer: B) H₂SO₄

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282. Which of the following is a noble gas?

- A) Oxygen
- B) Nitrogen
- C) Argon
- D) Carbon

Answer: C) Argon

283. What is the name for the process of converting a solid directly to a gas without passing through the liquid phase?

- A) Melting
- B) Evaporation
- C) Sublimation
- D) Boiling

Answer: C) Sublimation

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284. What is the chemical formula for sodium chloride (table salt)?

- A) NaCl
- B) KCl

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C) CaCl_2

D) FeCl_3

Answer: A) NaCl

285. Which of the following is a chemical change?

A) Melting of ice

B) Dissolving of salt in water

C) Burning of wood

D) Cutting paper

Answer: C) Burning of wood

286. Which of the following is the unit for measuring the amount of a substance?

A) Joule

B) Kelvin

C) Mole

D) Hertz

Answer: C) Mole

287. What is the name for a substance that speeds up a chemical reaction without being consumed in the process?

A) Reactant

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B) Product

C) Catalyst

D) Enzyme

Answer: C) Catalyst

288. What is the name for a substance that donates a proton in a chemical reaction?

A) Acid

B) Base

C) Salt

D) Alkali

Answer: A) Acid

289. What is the chemical formula for methane gas?

A) CH₄

B) C₂H₆

C) C₃H₈

D) C₄H₁₀

Answer: A) CH₄

290. What is the name for a solution with a pH greater than 7?

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A) Acidic

B) Basic

C) Neutral

D) Alkaline

Answer: D) Alkaline

291. Which of the following is a characteristic of an acid?

A) Releases hydrogen ions in water

B) Releases hydroxide ions in water

C) Has a pH greater than 7

D) Has a sour taste

Answer: A) Releases hydrogen ions in water

292. Which of the following elements is a metal?

A) Fluorine

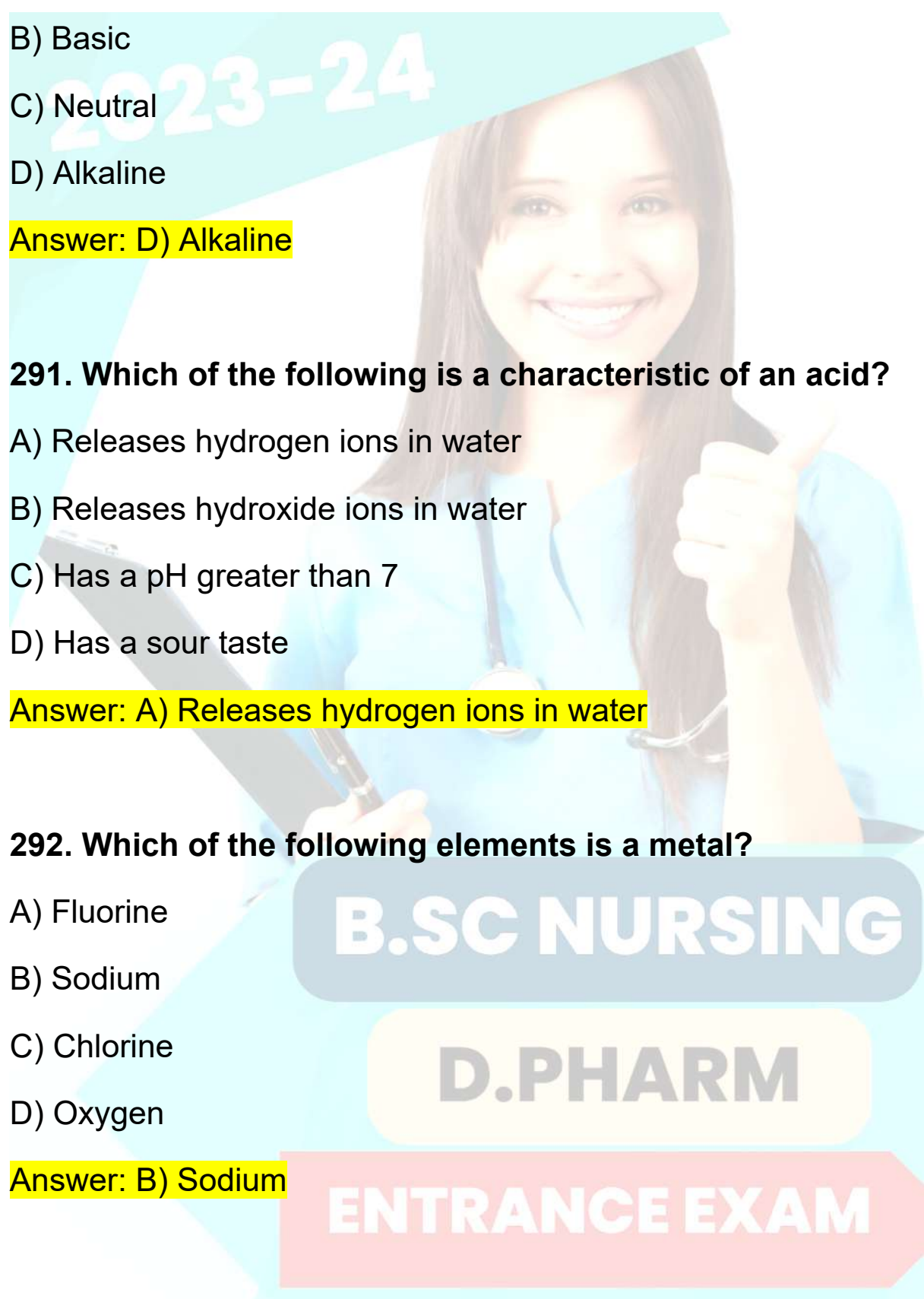
B) Sodium

C) Chlorine

D) Oxygen

Answer: B) Sodium

293. What is the chemical symbol for gold?



A) Gd

B) Ge

C) Au

D) Ag

Answer: C) Au

294. Which of the following is responsible for regulating the body's calcium levels in the endocrine system?

A) Adrenal gland

B) Parathyroid gland

C) Thyroid gland

D) Pituitary gland

Answer: B) Parathyroid gland

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295. Which of the following is responsible for carrying oxygen to the muscles in the respiratory system?

A) Trachea

B) Bronchi

C) Alveoli

D) Hemoglobin

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Answer: D) Hemoglobin

296. Which of the following is responsible for carrying out the process of filtration in the urinary system?

- A) Kidneys
- B) Bladder
- C) Ureter
- D) Urethra

Answer: A) Kidneys

297. Which of the following is responsible for producing the hormone oxytocin in the endocrine system?

- A) Adrenal gland
- B) Pineal gland
- C) Thyroid gland
- D) Pituitary gland

Answer: D) Pituitary gland

298.: Which of the following is responsible for carrying out the process of transcription in the cell?

- A) RNA polymerase
- B) Ribosomes

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C) tRNA

D) DNA helicase

Answer: A) RNA polymerase

299. Which of the following is responsible for carrying out the process of translation in the cell?

A) Ribosomes

B) RNA polymerase

C) DNA helicase

D) tRNA

Answer: A) Ribosomes

300. Which of the following is responsible for carrying out the process of blood clotting in the circulatory system?

A) Platelets

B) Red blood cells

C) White blood cells

D) Plasma

Answer: A) Platelets

301. Which of the following is responsible for producing the hormone testosterone in the endocrine system?

A) Adrenal gland

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B) Testes

C) Pancreas

D) Pituitary gland

Answer: B) Testes

302. Which of the following is responsible for carrying out the process of fertilization in the reproductive system?

A) Ovaries

B) Testes

C) Fallopian tubes

D) Uterus

Answer: C) Fallopian tubes

303. Which of the following is responsible for carrying out the process of respiration in the respiratory system?

A) Lungs

B) Trachea

C) Alveoli

D) Bronchi

Answer: A) Lungs

304. What is the name for a compound that contains only two elements?

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A) Covalent compound

B) Ionic compound

C) Binary compound

D) Molecular compound

Answer: C) Binary compound

305. Which of the following is a chemical reaction in which oxygen combines with another substance to form an oxide?

A) Oxidation

B) Reduction

C) Combustion

D) Displacement

Answer: C) Combustion

306. What is the name for a process in which a liquid is converted to a gas?

A) Melting

B) Freezing

C) Evaporation

D) Condensation

Answer: C) Evaporation

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307. Which of the following is the correct formula for potassium nitrate?

- A) KNO_2
- B) KNO_3
- C) KCl
- D) KOH

Answer: B) KNO_3

308. What is the name for a reaction in which two or more substances combine to form a new compound?

- A) Decomposition
- B) Combustion
- C) Synthesis
- D) Double displacement

Answer: C) Synthesis

309. What is the chemical symbol for nitrogen gas?

- A) Ni
- B) Na
- C) Ne
- D) N_2

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Answer: D) N₂

310. What is the name for a type of chemical bond that involves the sharing of electrons between atoms?

- A) Ionic bond
- B) Metallic bond
- C) Covalent bond
- D) Hydrogen bond

Answer: C) Covalent bond

311. Which of the following is an example of a homogeneous mixture?

- A) Oil and vinegar salad dressing
- B) Saltwater
- C) Chocolate chip cookie dough
- D) Blood

Answer: B) Saltwater

312. Which of the following is the chemical formula for water?

- A) CO₂
- B) NaCl

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C) H_2O

D) CaCO_3

Answer: C) H_2O

313. Which of the following is a characteristic of a base?

A) Releases hydrogen ions in water

B) Releases hydroxide ions in water

C) Has a pH less than 7

D) Has a bitter taste

Answer: B) Releases hydroxide ions in water

314. Which of the following is the correct name for the compound NaCl ?

A) Sodium chloride

B) Nitrogen chloride

C) Nickel chloride

D) Nitric chloride

Answer: A) Sodium chloride

315. Which of the following is the correct name for the compound CO_2 ?

A) Carbon oxide

B) Carbon dioxide

C) Carbon monoxide

D) Carbon trioxide

Answer: B) Carbon dioxide

316. Which of the following is a physical change?

A) Burning wood

B) Digesting food

C) Dissolving salt in water

D) Rusting of iron

Answer: C) Dissolving salt in water

318. What is the name for the process in which a solid changes directly into a gas without first becoming a liquid?

A) Sublimation

B) Condensation

C) Vaporization

D) Fusion

Answer: A) Sublimation

319. Which of the following is a halogen element?

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A) Calcium

B) Fluorine

C) Sodium

D) Iron

Answer: B) Fluorine

320. Which of the following is the correct formula for sulfuric acid?

A) H_2SO_4

B) HNO_3

C) HCl

D) H_3PO_4

Answer: A) H_2SO_4

321. Which of the following is the correct name for the compound N_2O ?

A) Nitrogen oxide

B) Nitrogen dioxide

C) Dinitrogen oxide

D) Nitrous oxide

Answer: D) Nitrous oxide

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322. Which of the following is an example of an organic molecule?

- A) H_2O
- B) NaCl
- C) CO_2
- D) CH_4

Answer: D) CH_4

323. What is the term used to describe the amount of matter in an object?

- A) Mass
- B) Volume
- C) Density
- D) Weight

Answer: A) Mass

324. Which of the following is a property of acids?

- A) Tastes sweet
- B) Feels slippery
- C) Turns litmus paper blue
- D) Reacts with metals to produce hydrogen gas

Answer: D) Reacts with metals to produce hydrogen gas

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325. What is the name for the number of protons in an atom's nucleus?

- A) Atomic mass
- B) Atomic number
- C) Mass number
- D) Isotope number

Answer: B) Atomic number

326. Which of the following is the chemical formula for methane gas?

- A) CH₄
- B) H₂SO₄
- C) NaCl
- D) CO₂

Answer: A) CH₄

327. What is the name for a substance that speeds up a chemical reaction without being consumed in the reaction?

- A) Catalyst
- B) Reactant

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C) Product

D) Enzyme

Answer: A) Catalyst

328. Which of the following is a noble gas?

A) Helium

B) Carbon

C) Oxygen

D) Nitrogen

Answer: A) Helium

329. What is the name for a solution with a pH of 7?

A) Neutral

B) Acidic

C) Basic

D) Alkaline

Answer: A) Neutral

330. Which of the following is responsible for carrying out the process of filtration in the blood vessels?

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A) Capillaries

B) Arteries

C) Veins

D) Red blood cells

Answer: A) Capillaries

331. Which of the following is responsible for carrying out the process of digestion in the digestive system?

A) Small intestine

B) Large intestine

C) Esophagus

D) Liver

Answer: A) Small intestine

332. Which of the following is responsible for carrying out the process of excretion in the urinary system?

A) Kidneys

B) Bladder

C) Ureter

D) Urethra

Answer: D) Urethra

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333. Which of the following is responsible for producing the hormone insulin in the endocrine system?

- A) Adrenal gland
- B) Pancreas
- C) Thyroid gland
- D) Pituitary gland

Answer: B) Pancreas

334. Which of the following is responsible for carrying out the process of meiosis in the reproductive system?

- A) Ovaries
- B) Testes
- C) Fallopian tubes
- D) Uterus

Answer: A) Ovaries and B) Testes

335. Which of the following is responsible for carrying out the process of transpiration in the plant?

- A) Stomata
- B) Root hairs
- C) Xylem
- D) Phloem

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Answer: A) Stomata

336. Which of the following is responsible for carrying out the process of immunity in the immune system?

- A) Antibodies
- B) Antigens
- C) Histamines
- D) White blood cells

Answer: D) White blood cells

337. Which of the following is responsible for carrying out the process of reflexes in the nervous system?

- A) Spinal cord
- B) Brain
- C) Neurons
- D) Neurotransmitters

Answer: A) Spinal cord

338. Which of the following is responsible for carrying out the process of digestion of carbohydrates in the digestive system?

- A) Amylase

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B) Pepsin

C) Lipase

D) Trypsin

Answer: A) Amylase

339. Which of the following is responsible for carrying out the process of light-dependent reactions in photosynthesis?

A) Chlorophyll

B) Stomata

C) Grana

D) Thylakoids

Answer: A) Chlorophyll

340. Which of the following is responsible for carrying out the process of DNA replication in the cell?

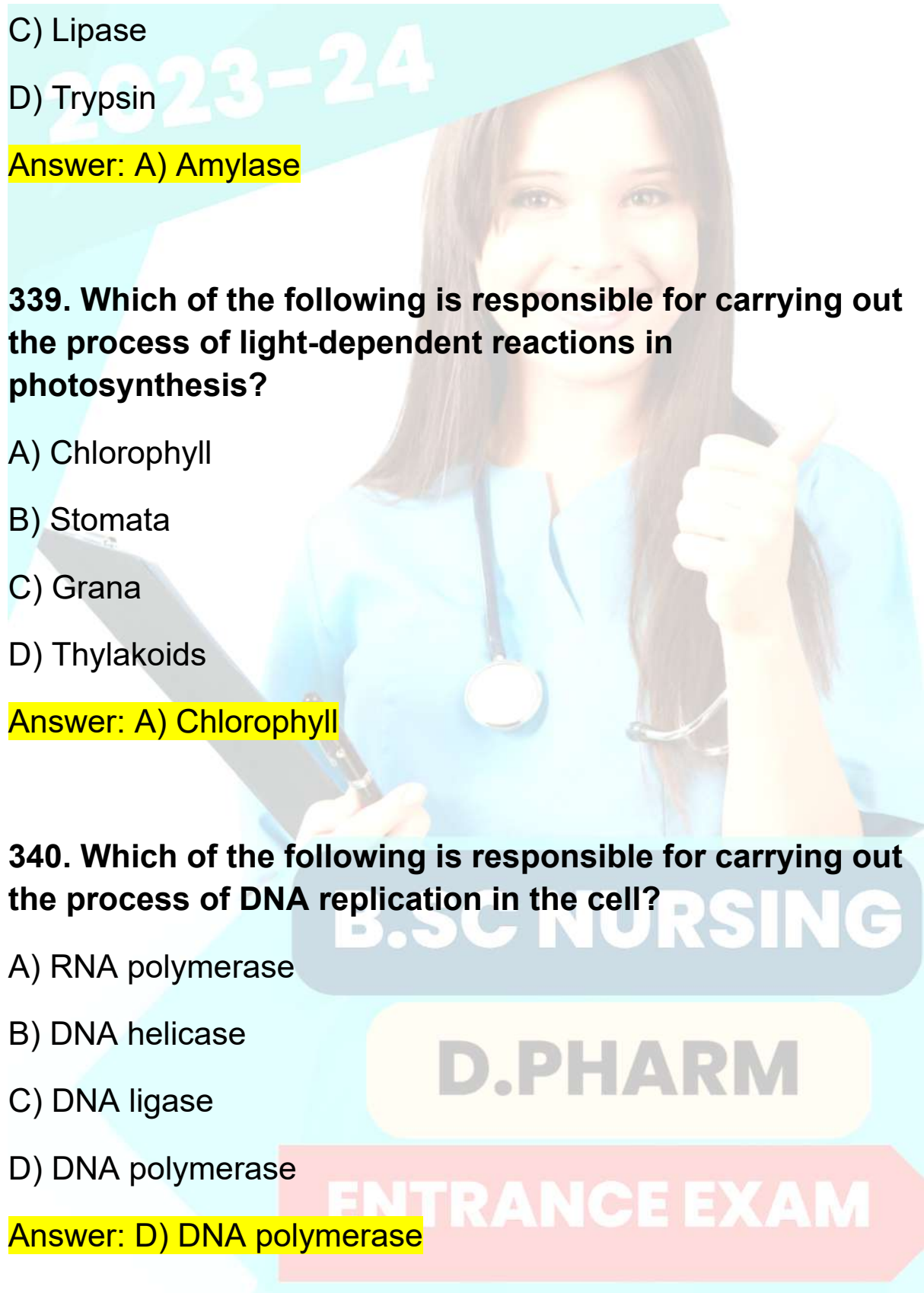
A) RNA polymerase

B) DNA helicase

C) DNA ligase

D) DNA polymerase

Answer: D) DNA polymerase



341. Which of the following is responsible for carrying out the process of mitosis in the cell?

- A) Nucleus
- B) Ribosomes
- C) Golgi apparatus
- D) Mitochondria

Answer: A) Nucleus

342. Which of the following is responsible for producing the hormone adrenaline in the endocrine system?

- A) Adrenal gland
- B) Pituitary gland
- C) Thyroid gland
- D) Pancreas

Answer: A) Adrenal gland

343. Which of the following is responsible for carrying out the process of filtration in the kidney?

- A) Glomerulus
- B) Nephron
- C) Renal pelvis
- D) Ureter

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Answer: A) Glomerulus

344. Which of the following is responsible for carrying out the process of reflexes in the body?

- A) Motor neurons
- B) Sensory neurons
- C) Interneurons
- D) Schwann cells

Answer: C) Interneurons

345. Which of the following is responsible for carrying out the process of transcription in the cell?

- A) Ribosomes
- B) RNA polymerase
- C) DNA helicase
- D) tRNA

Answer: B) RNA polymerase

346. Which of the following is responsible for carrying out the process of protein synthesis in the cell?

- A) Ribosomes
- B) Mitochondria
- C) Golgi apparatus

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D) Lysosomes

Answer: A) Ribosomes

347. Which of the following is responsible for carrying out the process of blood clotting in the circulatory system?

- A) Platelets
- B) White blood cells
- C) Red blood cells
- D) Plasma

Answer: A) Platelets

348. Which of the following is responsible for carrying out the process of gas exchange in the respiratory system?

- A) Alveoli
- B) Trachea
- C) Bronchi
- D) Larynx

Answer: A) Alveoli

349. Which of the following is responsible for carrying out the process of photosynthesis in the plant?

- A) Chloroplast

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B) Mitochondria

C) Ribosomes

D) Nucleus

Answer: A) Chloroplast

350. Which of the following is responsible for carrying out the process of antigen presentation in the immune system?

A) Macrophages

B) T cells

C) B cells

D) Antibodies

Answer: A) Macrophages

351. Which of the following is responsible for carrying out the process of producing the hormone testosterone in the endocrine system?

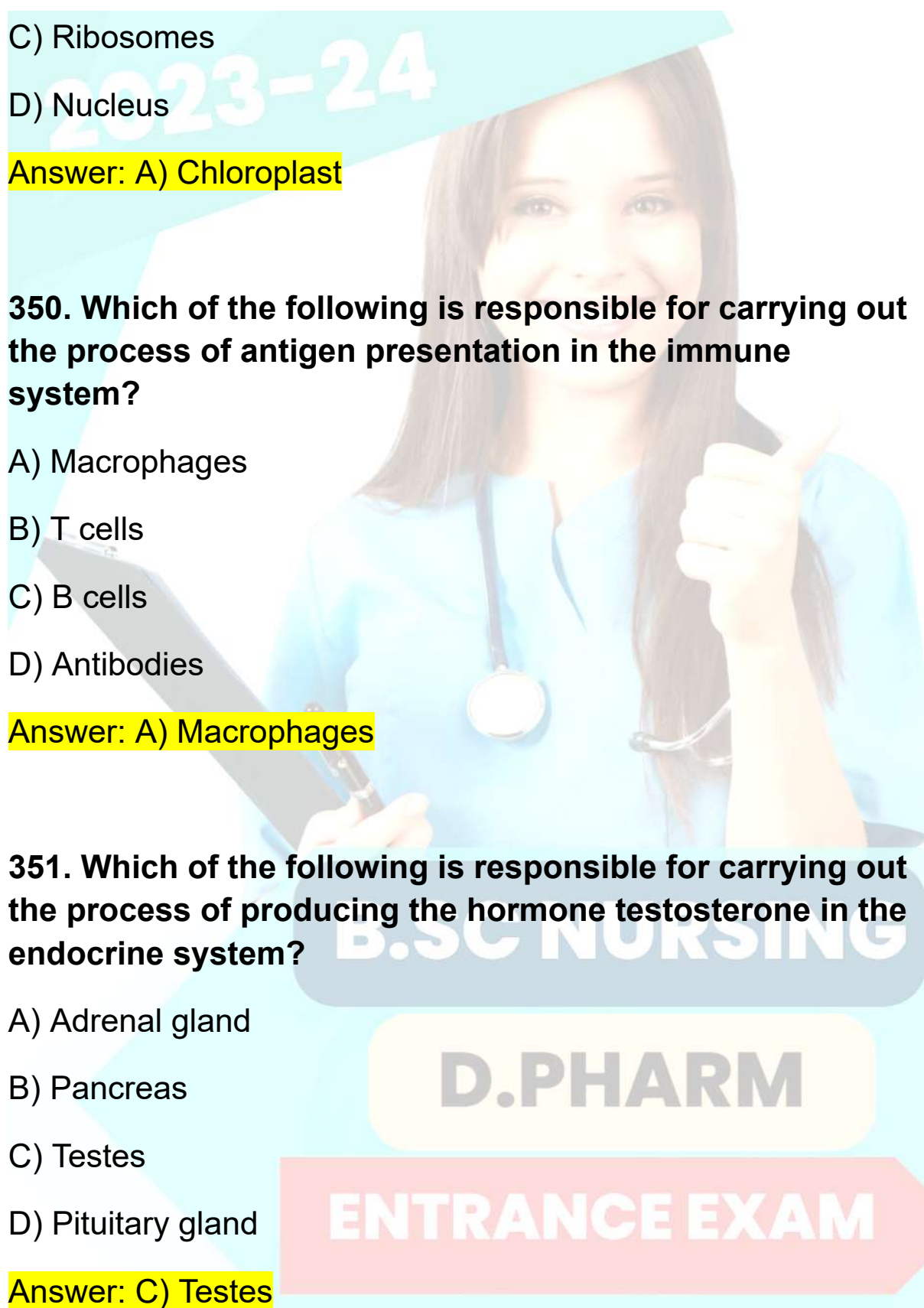
A) Adrenal gland

B) Pancreas

C) Testes

D) Pituitary gland

Answer: C) Testes



352. Which of the following is responsible for carrying out the process of transporting water and nutrients in the plant?

- A) Xylem
- B) Phloem
- C) Stomata
- D) Root hairs

Answer: A) Xylem

353. Which of the following is responsible for carrying out the process of producing the hormone insulin in the endocrine system?

- A) Adrenal gland
- B) Pancreas
- C) Testes
- D) Pituitary gland

Answer: B) Pancreas

354. Which of the following is responsible for carrying out the process of producing gametes in the reproductive system?

- A) Testes and ovaries

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B) Kidneys

C) Liver

D) Stomach

Answer: A) Testes and ovaries

355. Which of the following is the correct formula for glucose?

A) $C_6H_{12}O_6$

B) H_2SO_4

C) $NaCl$

D) CO_2

Answer: A) $C_6H_{12}O_6$

356. Which of the following is the chemical formula for table salt?

A) H_2O

B) $NaCl$

C) CO_2

D) CH_4

Answer: B) $NaCl$

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357. Which of the following is responsible for carrying out the process of generating ATP in the cell?

- A) Mitochondria
- B) Ribosomes
- C) Golgi apparatus
- D) Lysosomes

Answer: A) Mitochondria

358. Which of the following is responsible for carrying out the process of carrying oxygen in the circulatory system?

- A) Red blood cells
- B) Platelets
- C) White blood cells
- D) Plasma

Answer: A) Red blood cells

359. Which of the following is responsible for carrying out the process of secreting enzymes for digestion in the digestive system?

- A) Pancreas
- B) Liver
- C) Gallbladder

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D) Large intestine

Answer: A) Pancreas

360. Which of the following is responsible for carrying out the process of maintaining homeostasis in the body?

A) Kidneys

B) Heart

C) Lungs

D) Liver

Answer: A) Kidneys

361. Which of the following is responsible for carrying out the process of breaking down toxins in the liver?

A) Hepatocytes

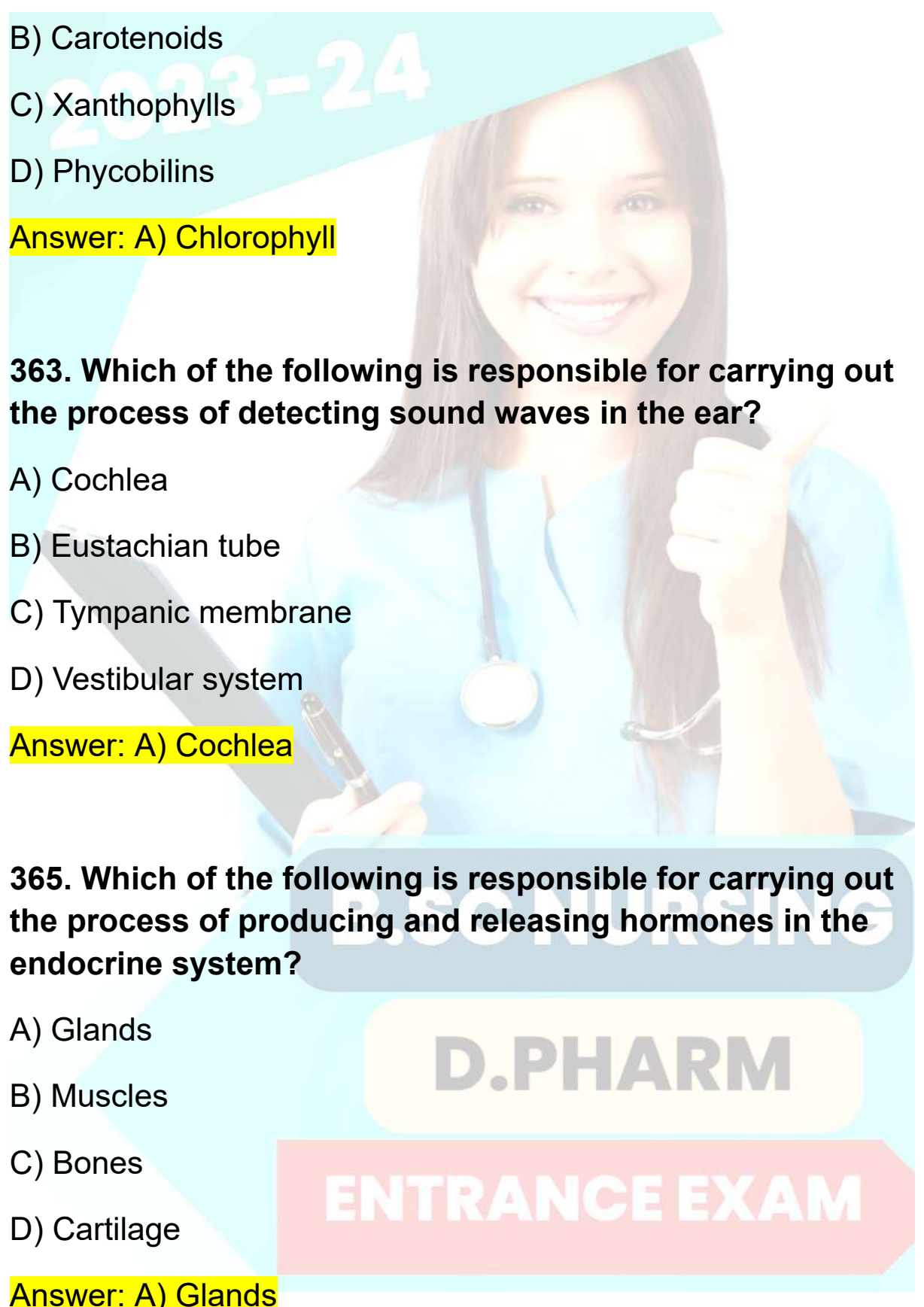
B) Bile ducts

C) Kupffer cells

D) Sinusoids

Answer: A) Hepatocytes

362. Which of the following is responsible for carrying out the process of converting light energy into chemical energy during photosynthesis?

- 
- A) Chlorophyll
B) Carotenoids
C) Xanthophylls
D) Phycobilins

Answer: A) Chlorophyll

363. Which of the following is responsible for carrying out the process of detecting sound waves in the ear?

- A) Cochlea
B) Eustachian tube
C) Tympanic membrane
D) Vestibular system

Answer: A) Cochlea

365. Which of the following is responsible for carrying out the process of producing and releasing hormones in the endocrine system?

- A) Glands
B) Muscles
C) Bones
D) Cartilage

Answer: A) Glands

366. Which of the following is responsible for carrying out the process of filtering waste products from the blood in the urinary system?

- A) Kidneys
- B) Bladder
- C) Ureters
- D) Urethra

Answer: A) Kidneys

367. Which of the following is responsible for carrying out the process of exchanging gases between the blood and the air in the lungs?

- A) Alveoli
- B) Bronchi
- C) Trachea
- D) Larynx

Answer: A) Alveoli

368. Which of the following is responsible for carrying out the process of producing and releasing insulin in the pancreas?

- A) Beta cells

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B) Alpha cells

C) Delta cells

D) Gamma cells

Answer: A) Beta cells

369. Which of the following is responsible for carrying out the process of contracting and relaxing to produce movement in the body?

A) Muscles

B) Bones

C) Cartilage

D) Ligaments

Answer: A) Muscles

370. Which of the following is responsible for carrying out the process of producing and releasing bile in the liver?

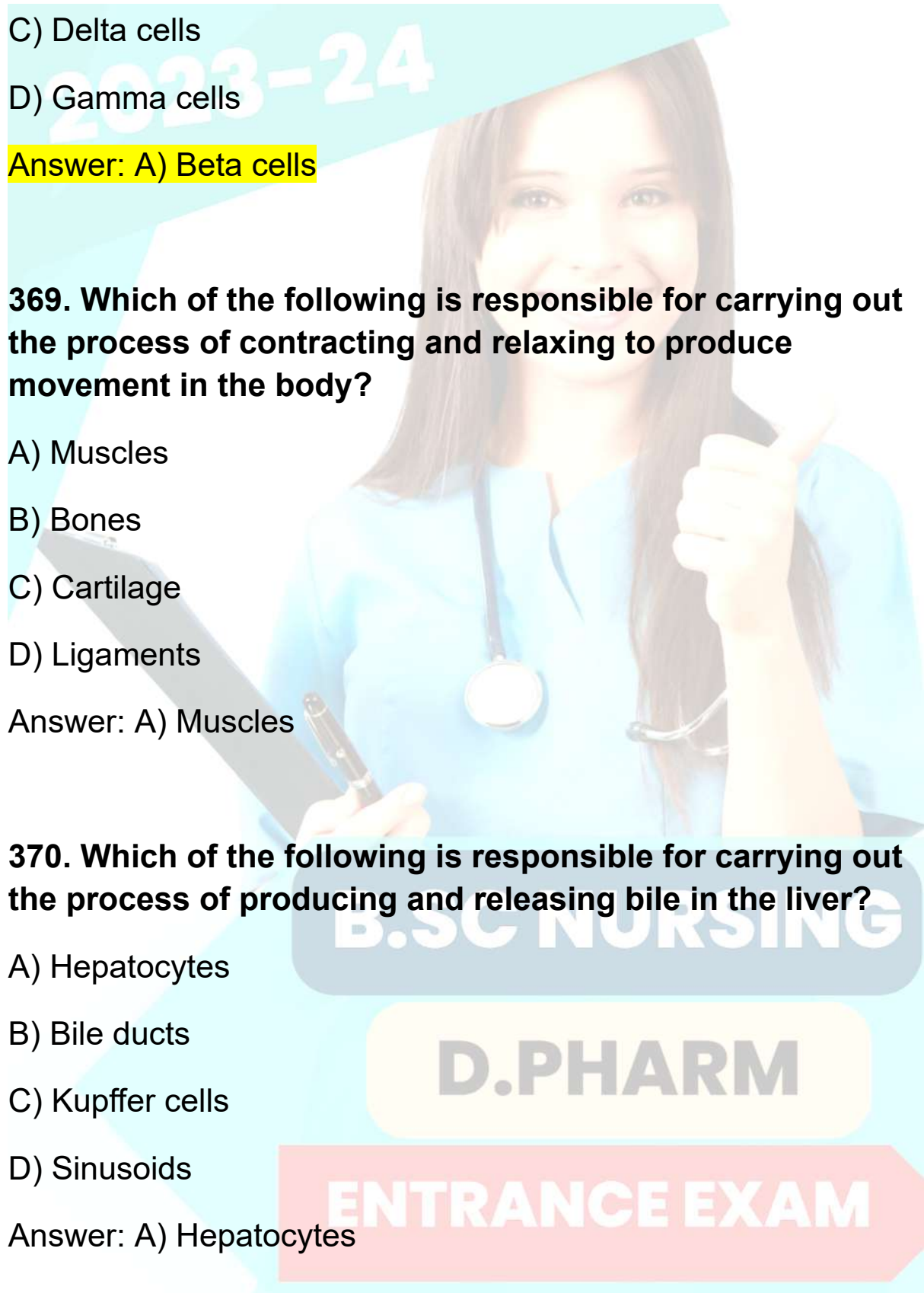
A) Hepatocytes

B) Bile ducts

C) Kupffer cells

D) Sinusoids

Answer: A) Hepatocytes



371. Which of the following is responsible for carrying out the process of converting food into a bolus in the mouth?

- A) Teeth
- B) Salivary glands
- C) Tongue
- D) Esophagus

Answer: A) Teeth

372. Which of the following is responsible for carrying out the process of producing antibodies in the immune system?

- A) B cells
- B) T cells
- C) Natural killer cells
- D) Dendritic cells

Answer: A) B cells

373. Which of the following is responsible for carrying out the process of generating electrical impulses in the nervous system?

- A) Neurons
- B) Glial cells
- C) Schwann cells

B.SC NURSING

ENTRANCE EXAM

D) Oligodendrocytes

Answer: A) Neurons

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374. Which of the following is responsible for carrying out the process of breaking down food into nutrients in the small intestine?

- A) Villi
- B) Microvilli
- C) Plicae circulares
- D) Crypts of Lieberkuhn

Answer: A) Villi

375. Which of the following is responsible for carrying out the process of releasing hormones in response to stress in the endocrine system?

- A) Adrenal glands
- B) Thyroid gland
- C) Parathyroid glands
- D) Thymus gland

Answer: A) Adrenal glands

B.SC NURSING

D.PHARM

ENTRANCE EXAM

376. Which of the following is responsible for carrying out the process of producing antibodies and fighting infections in the immune system?

- A) White blood cells
- B) Platelets
- C) Red blood cells
- D) Plasma

Answer: A) White blood cells

377. Which of the following is responsible for carrying out the process of transmitting sound waves to the brain in the auditory system?

- A) Cochlea
- B) Eustachian tube
- C) Ossicles
- D) Semicircular canals

Answer: A) Cochlea

378. Which of the following is responsible for carrying out the process of regulating blood sugar levels in the endocrine system?

- A) Pancreas
- B) Adrenal glands

B.SC NURSING

D. PHARM

ENTRANCE EXAM

C) Pituitary gland

D) Pineal gland

Answer: A) Pancreas

379. Which of the following is responsible for carrying out the process of filtering blood and producing urine in the urinary system?

A) Kidneys

B) Bladder

C) Ureters

D) Urethra

Answer: A) Kidneys

380. Which of the following is responsible for carrying out the process of transmitting visual information to the brain in the visual system?

A) Retina

B) Cornea

C) Iris

D) Lens

Answer: A) Retina

B.SC NURSING

D.PHARM

ENTRANCE EXAM

381. Which of the following is responsible for carrying out the process of exchanging gases in the respiratory system?

- A) Alveoli
- B) Bronchi
- C) Larynx
- D) Trachea

Answer: A) Alveoli

382. Which of the following is responsible for carrying out the process of producing and secreting milk in the mammary gland?

- A) Alveoli
- B) Ducts
- C) Lobes
- D) Areola

Answer: A) Alveoli

383. Which of the following is responsible for carrying out the process of digesting proteins in the stomach?

- A) Pepsin
- B) Amylase
- C) Lipase

B.SC NURSING

D. PHARM

ENTRANCE EXAM

D) Trypsin

Answer: A) Pepsin

384. Which of the following is responsible for carrying out the process of breaking down carbohydrates in the mouth?

A) Amylase

B) Pepsin

C) Trypsin

D) Lipase

Answer: A) Amylase

385. Which of the following is responsible for carrying out the process of producing eggs in the female reproductive system?

A) Ovaries

B) Fallopian tubes

C) Uterus

D) Vagina

Answer: A) Ovaries

B.SC NURSING

D.PHARM

ENTRANCE EXAM

386.0 Which of the following is responsible for carrying out the process of producing sperm in the male reproductive system?

- A) Testes
- B) Epididymis
- C) Vas deferens
- D) Seminal vesicles

Answer: A) Testes

387. Which of the following is responsible for carrying out the process of pumping blood in the circulatory system?

- A) Heart
- B) Arteries
- C) Veins
- D) Capillaries

Answer: A) Heart

388. Which of the following is responsible for carrying out the process of producing insulin in the endocrine system?

- A) Pancreas
- B) Adrenal glands
- C) Pituitary gland

B.SC NURSING

ENTRANCE EXAM

D) Thyroid gland

Answer: A) Pancreas

389. Which of the following is responsible for carrying out the process of transporting oxygen in the circulatory system?

- A) Hemoglobin
- B) Platelets
- C) Plasma
- D) White blood cells

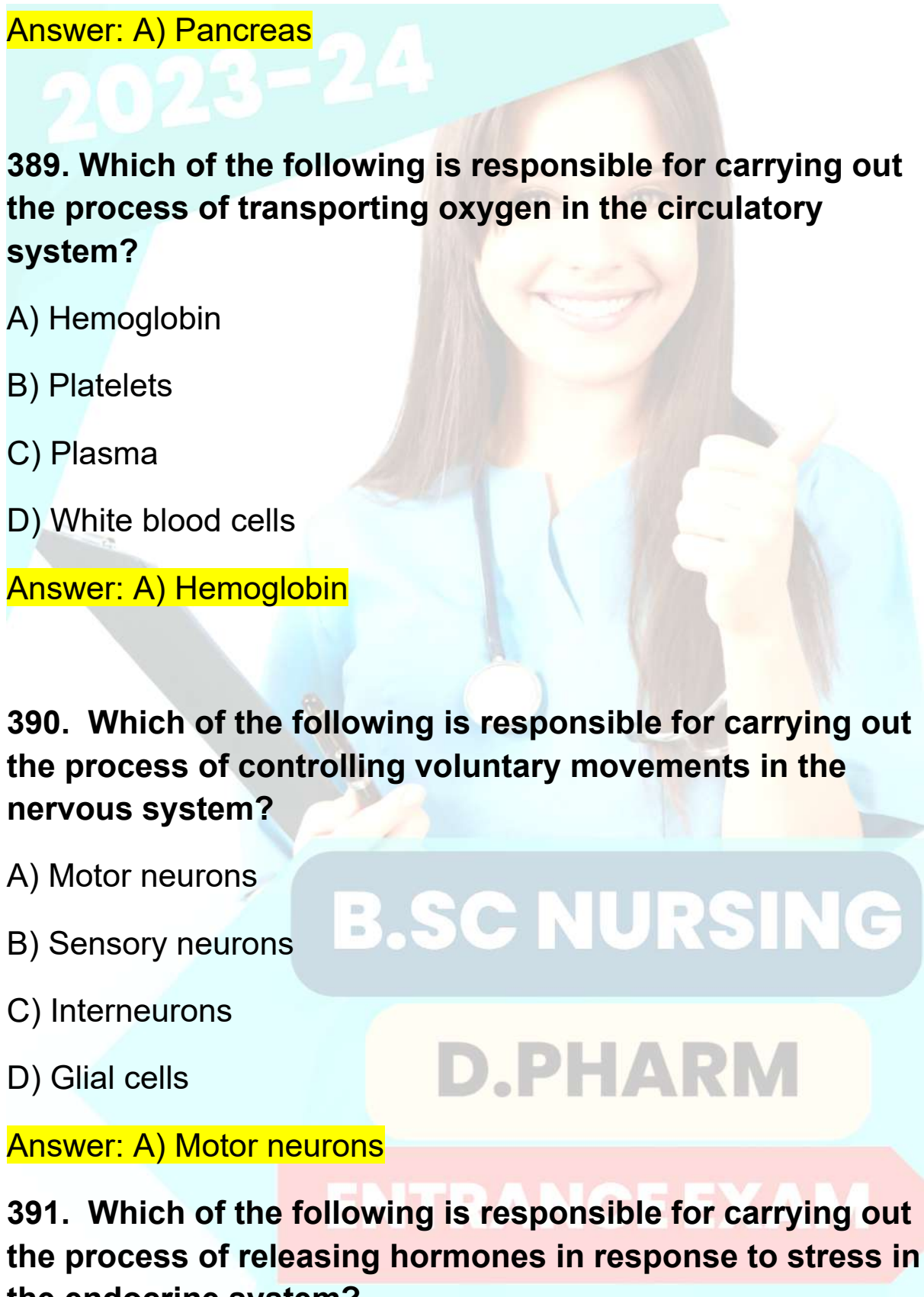
Answer: A) Hemoglobin

390. Which of the following is responsible for carrying out the process of controlling voluntary movements in the nervous system?

- A) Motor neurons
- B) Sensory neurons
- C) Interneurons
- D) Glial cells

Answer: A) Motor neurons

391. Which of the following is responsible for carrying out the process of releasing hormones in response to stress in the endocrine system?



A) Adrenal gland

B) Pituitary gland

C) Thyroid gland

D) Parathyroid gland

Answer: A) Adrenal gland

392. Which of the following is responsible for carrying out the process of producing and secreting bile in the digestive system?

A) Liver

B) Pancreas

C) Gallbladder

D) Small intestine

Answer: A) Liver

394. Which of the following is responsible for carrying out the process of filtering waste products from the blood in the urinary system?

A) Kidneys

B) Bladder

C) Ureters

D) Urethra

B.S.C NURSING

D.PHARM

ENTRANCE EXAM

Answer: A) Kidneys

395. Which of the following is responsible for carrying out the process of producing and releasing milk in the mammary glands?

- A) Prolactin
- B) Oxytocin
- C) Estrogen
- D) Progesterone

Answer: A) Prolactin

396. Which of the following is responsible for carrying out the process of breaking down proteins in the stomach?

- A) Pepsin
- B) Amylase
- C) Trypsin
- D) Lipase

Answer: A) Pepsin

397. Which of the following is responsible for carrying out the process of producing antibodies in the immune system?

- A) B cells

B.SC NURSING

D.PHARM

ENTRANCE EXAM

B) T cells

C) Natural killer cells

D) Dendritic cells

Answer: A) B cells

398. Which of the following is responsible for carrying out the process of carrying oxygen from the lungs to the body's tissues in the circulatory system?

A) Red blood cells

B) White blood cells

C) Platelets

D) Plasma

Answer: A) Red blood cells

399. Which of the following is responsible for carrying out the process of producing insulin in the endocrine system?

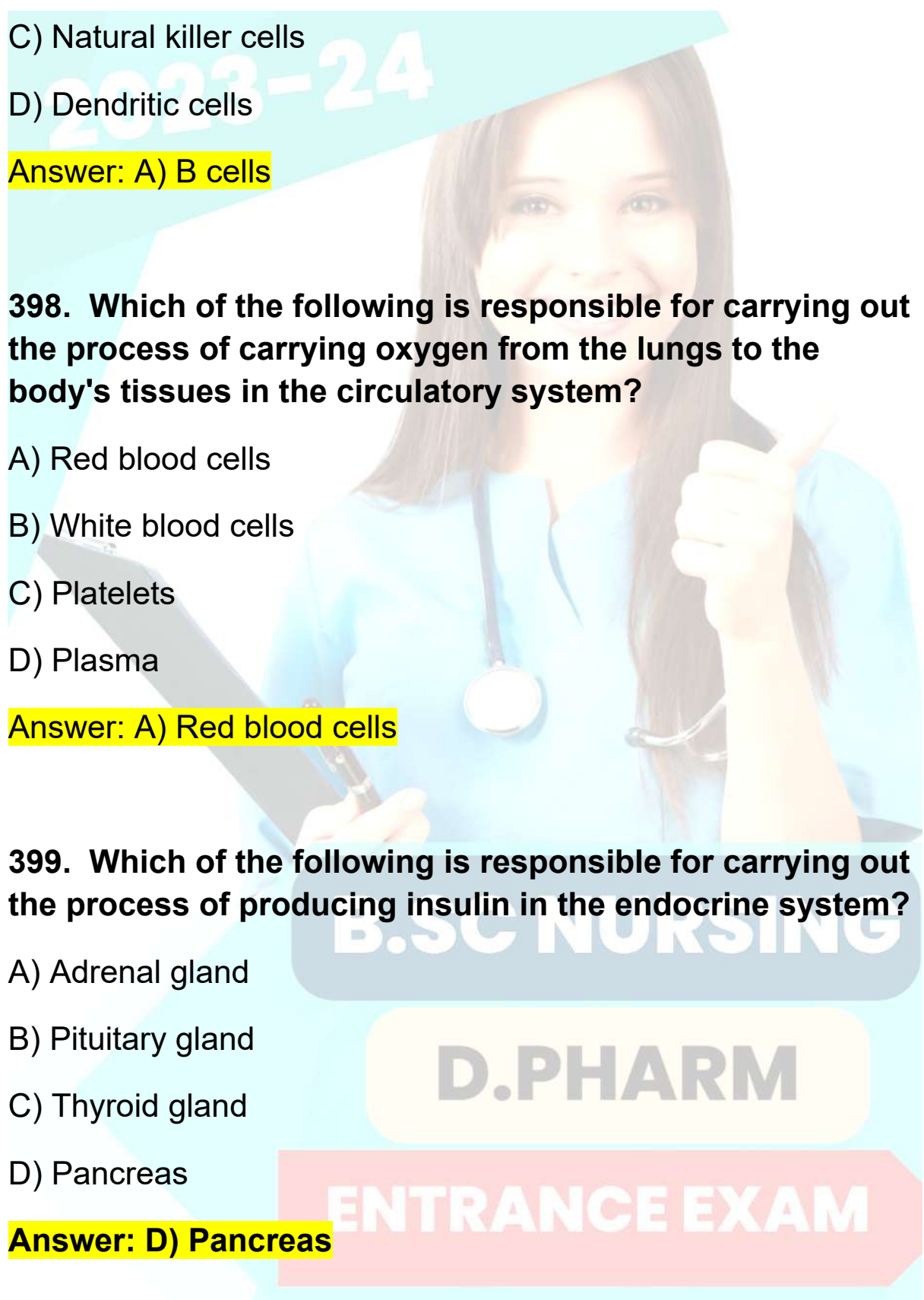
A) Adrenal gland

B) Pituitary gland

C) Thyroid gland

D) Pancreas

Answer: D) Pancreas



400. Which of the following is responsible for carrying out the process of converting light into electrical signals in the eye?

- A) Retina
- B) Cornea
- C) Iris
- D) Lens

Answer: A) Retina

401. Which of the following is responsible for carrying out the process of breaking down carbohydrates in the mouth?

- A) Amylase
- B) Pepsin
- C) Trypsin
- D) Lipase

Answer: A) Amylase

402. Which of the following is responsible for carrying out the process of producing and secreting testosterone in the male reproductive system?

- A) Testes
- B) Prostate gland

B.SC NURSING

D. PHARM

ENTRANCE EXAM

C) Seminal vesicles

D) Vas deferens

Answer: A) Testes

403. Which of the following is responsible for carrying out the process of producing and secreting estrogen in the female reproductive system?

A) Ovaries

B) Fallopian tubes

C) Uterus

D) Vagina

Answer: A) Ovaries

404. Which of the following is responsible for carrying out the process of regulating body temperature in the integumentary system?

A) Sweat glands

B) Hair follicles

C) Sebaceous glands

D) Nails

Answer: A) Sweat glands

B.SC NURSING

D.PHARM

ENTRANCE EXAM

405. Which of the following is responsible for carrying out the process of regulating blood sugar levels in the endocrine system?

- A) Insulin
- B) Glucagon
- C) Epinephrine
- D) Norepinephrine

Answer: B) Glucagon

406. Which of the following is responsible for carrying out the process of oxygen and carbon dioxide exchange in the respiratory system?

- A) Larynx
- B) Pharynx
- C) Bronchioles
- D) Alveoli

Answer: D) Alveoli

407 Which of the following is responsible for carrying out the process of pumping blood in the cardiovascular system?

- A) Aorta
- B) Vena cava

B.SC NURSING

D. PHARM

ENTRANCE EXAM

C) Heart

D) Pulmonary artery

Answer: C) Heart

408 Which of the following is responsible for carrying out the process of producing and releasing bile in the digestive system?

A) Liver

B) Pancreas

C) Stomach

D) Small intestine

Answer: A) Liver

409 Which of the following is responsible for carrying out the process of transporting nutrients, waste products, and hormones in the circulatory system?

A) Veins

B) Arteries

C) Capillaries

D) Venules

Answer: C) Capillaries

B.SC NURSING

D.PHARM

ENTRANCE EXAM

410 Which of the following is responsible for carrying out the process of converting food into absorbable nutrients in the digestive system?

- A) Esophagus
- B) Stomach
- C) Large intestine
- D) Rectum

Answer: B) Stomach

411 Which of the following is responsible for carrying out the process of producing and secreting melatonin in the endocrine system?

- A) Pineal gland
- B) Hypothalamus
- C) Pituitary gland
- D) Adrenal gland

Answer: A) Pineal gland

412 Which of the following is responsible for carrying out the process of converting nitrogen waste into urine in the urinary system?

- A) Kidneys
- B) Bladder

B.SC NURSING

D. PHARM

ENTRANCE EXAM

C) Urethra

D) Ureters

Answer: A) Kidneys

413. Which of the following is responsible for carrying out the process of breaking down glucose to produce ATP in the cell?

A) Mitochondria

B) Nucleus

C) Ribosome

D) Endoplasmic reticulum

Answer: A) Mitochondria

414. Which of the following is responsible for carrying out the process of filtering blood in the urinary system?

A) Kidneys

B) Bladder

C) Urethra

D) Ureters

Answer: A) Kidneys

B.SC NURSING

D.PHARM

ENTRANCE EXAM

415. Which of the following is responsible for carrying out the process of regulating blood sugar levels in the endocrine system?

- A) Pancreas
- B) Adrenal gland
- C) Thyroid gland
- D) Parathyroid gland

Answer: A) Pancreas

416 Which of the following is responsible for carrying out the process of filtering and cleaning the air we breathe in the respiratory system?

- A) Pharynx
- B) Larynx
- C) Trachea
- D) Nose

Answer: D) Nose

417 Which of the following is responsible for carrying out the process of breaking down and absorbing nutrients in the small intestine of the digestive system?

- A) Microvilli
- B) Villi

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D. PHARM

ENTRANCE EXAM

C) Gastric pits

D) Plicae circulares

Answer: B) Villi

418. Which of the following is responsible for carrying out the process of producing insulin in the endocrine system?

A) Adrenal gland

B) Thyroid gland

C) Pituitary gland

D) Pancreas

Answer: D) Pancreas

419 Which of the following is responsible for carrying out the process of producing red and white blood cells in the circulatory system?

A) Bone marrow

B) Spleen

C) Thymus

D) Lymph nodes

Answer: A) Bone marrow

B.SC NURSING

D.PHARM

ENTRANCE EXAM

420. Which of the following is responsible for carrying out the process of producing sperm in the male reproductive system?

- A) Testes
- B) Epididymis
- C) Vas deferens
- D) Prostate gland

Answer: A) Testes

421. Which of the following is responsible for carrying out the process of producing eggs in the female reproductive system?

- A) Ovaries
- B) Fallopian tubes
- C) Uterus
- D) Vagina

Answer: A) Ovaries

422 Which of the following is responsible for carrying out the process of producing milk in the mammary glands of the female reproductive system?

- A) Oxytocin
- B) Prolactin

B.SC NURSING

D. PHARM

ENTRANCE EXAM

C) Estrogen

D) Progesterone

Answer: B) Prolactin

423. Which of the following is responsible for carrying out the process of transmitting electrical signals in the nervous system?

A) Neurons

B) Glial cells

C) Astrocytes

D) Oligodendrocytes

Answer: A) Neurons

424. Which of the following is responsible for carrying out the process of producing antibodies in the immune system?

A) B cells

B) T cells

C) Natural killer cells

D) Monocytes

Answer: A) B cells

B.SC NURSING

D.PHARM

ENTRANCE EXAM

425. Which of the following is responsible for carrying out the process of clotting blood in the circulatory system?

- A) Platelets
- B) Red blood cells
- C) White blood cells
- D) Plasma

Answer: A) Platelets

426. Which of the following is responsible for carrying out the process of regulating metabolism in the endocrine system?

- A) Adrenal gland
- B) Thyroid gland
- C) Pituitary gland
- D) Parathyroid gland

Answer: B) Thyroid gland

427. Which of the following is the primary site of protein digestion in the human digestive system?

- A) Stomach
- B) Small intestine
- C) Large intestine

B.SC NURSING

ENTRANCE EXAM

D) Mouth

Answer: B) Small intestine

428. Which of the following is the primary site of water reabsorption in the human digestive system?

- A) Stomach
- B) Small intestine
- C) Large intestine
- D) Mouth

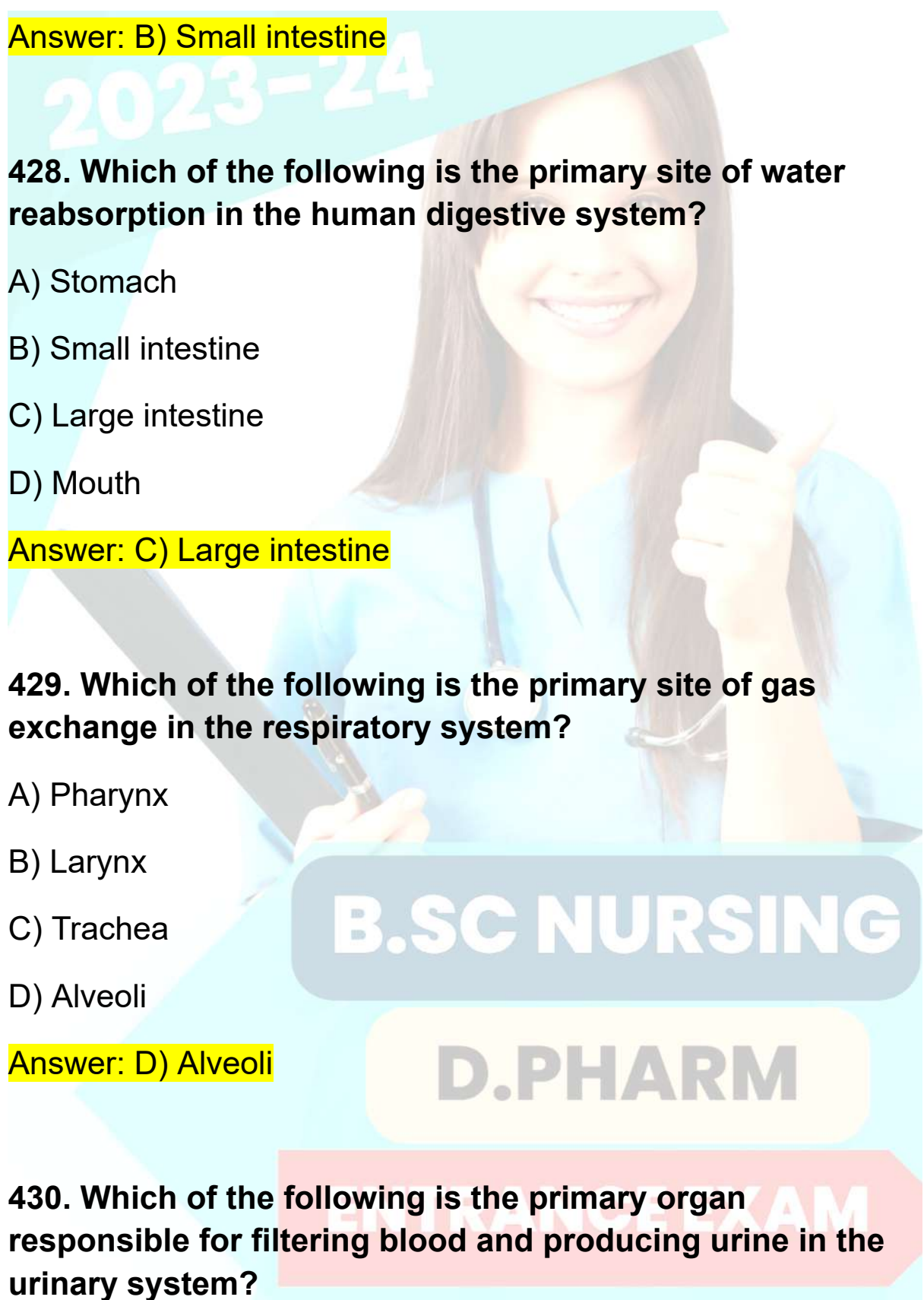
Answer: C) Large intestine

429. Which of the following is the primary site of gas exchange in the respiratory system?

- A) Pharynx
- B) Larynx
- C) Trachea
- D) Alveoli

Answer: D) Alveoli

430. Which of the following is the primary organ responsible for filtering blood and producing urine in the urinary system?



A) Kidneys

B) Bladder

C) Urethra

D) Ureters

Answer: A) Kidneys

431 Which of the following hormones is responsible for regulating blood sugar levels in the endocrine system?

A) Insulin

B) Glucagon

C) Adrenaline

D) Thyroxine

Answer: A) Insulin

432. Which of the following is the primary organ responsible for detoxifying the blood in the circulatory system?

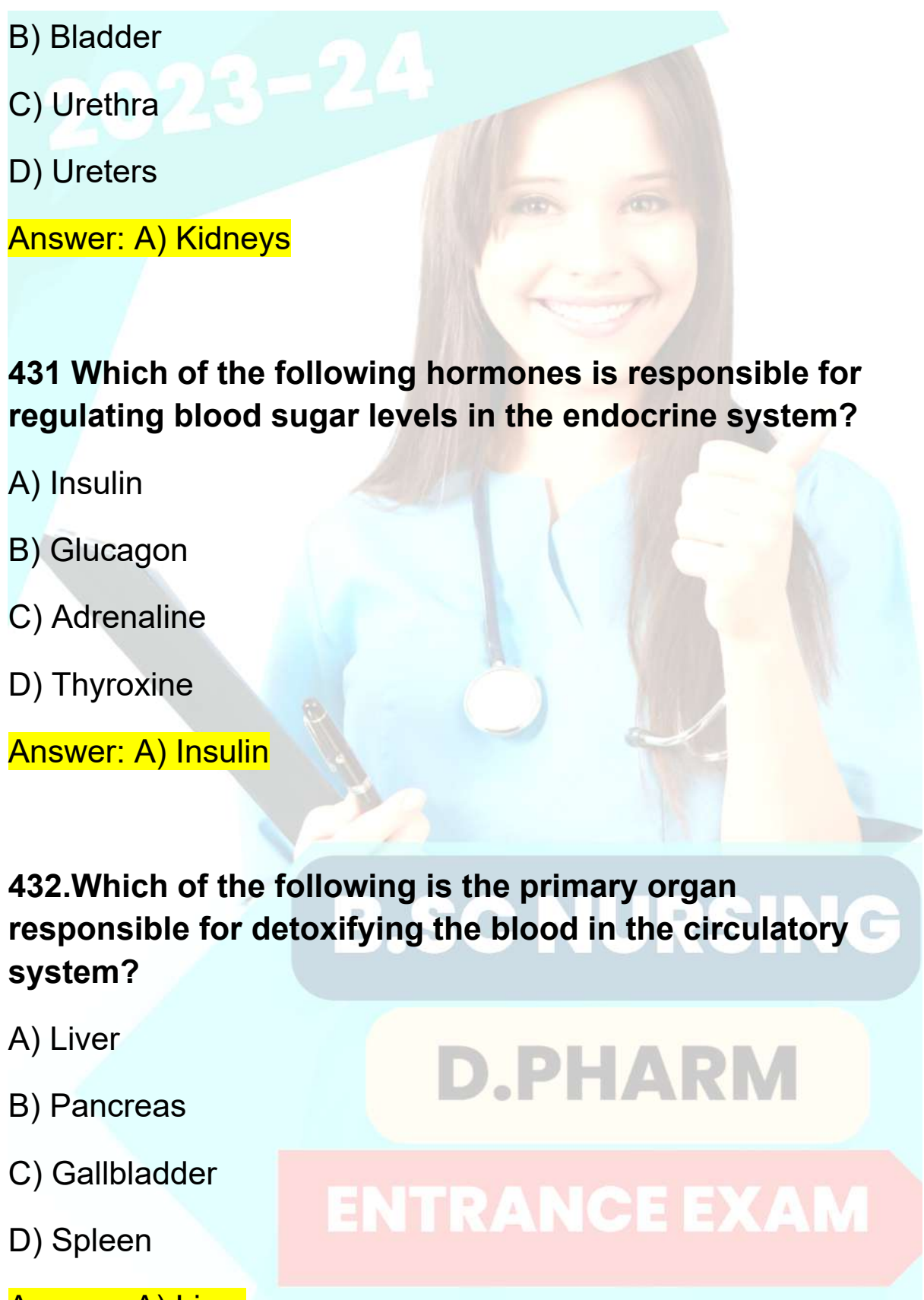
A) Liver

B) Pancreas

C) Gallbladder

D) Spleen

Answer: A) Liver



433. Which of the following is responsible for carrying out the process of muscle contraction in the muscular system?

- A) Actin
- B) Myosin
- C) Troponin
- D) Tropomyosin

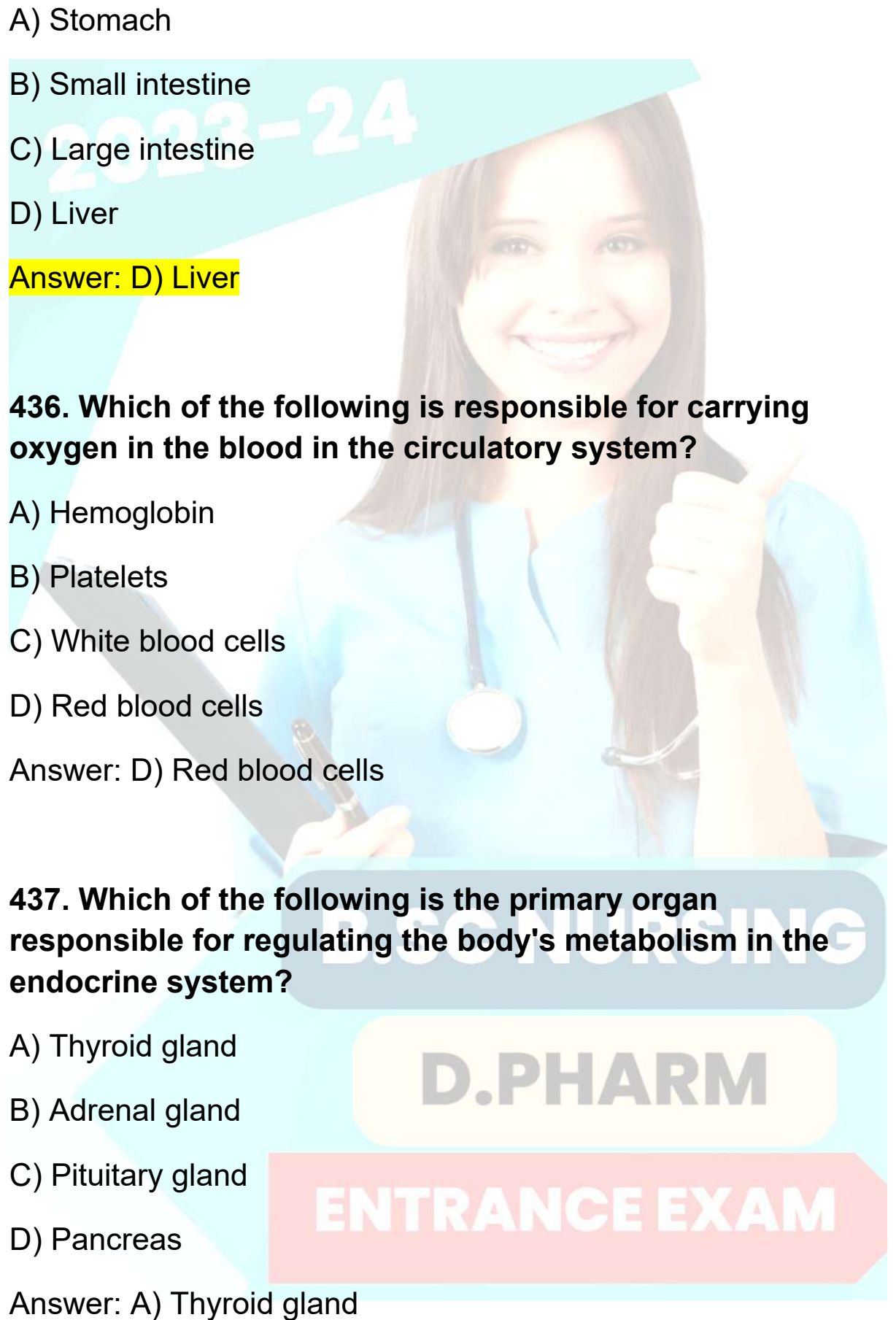
Answer: A) Actin and B) Myosin (both work together for muscle contraction)

434. Which of the following hormones is responsible for regulating the menstrual cycle in the female reproductive system?

- A) Luteinizing hormone (LH)
- B) Follicle-stimulating hormone (FSH)
- C) Estrogen
- D) Progesterone

Answer: A) Luteinizing hormone (LH) and D) Progesterone (both work together to regulate the menstrual cycle)

435. Which of the following is the primary organ responsible for producing and secreting bile in the digestive system?

- 
- A) Stomach
- B) Small intestine
- C) Large intestine
- D) Liver

Answer: D) Liver

436. Which of the following is responsible for carrying oxygen in the blood in the circulatory system?

- A) Hemoglobin
- B) Platelets
- C) White blood cells
- D) Red blood cells

Answer: D) Red blood cells

437. Which of the following is the primary organ responsible for regulating the body's metabolism in the endocrine system?

- A) Thyroid gland
- B) Adrenal gland
- C) Pituitary gland
- D) Pancreas

Answer: A) Thyroid gland

D.PHARM

ENTRANCE EXAM

438. Which of the following is the primary organ responsible for producing and secreting insulin in the endocrine system?

- A) Thyroid gland
- B) Adrenal gland
- C) Pituitary gland
- D) Pancreas

Answer: D) Pancreas

439. Which of the following is responsible for the exchange of gases between the blood and the air in the respiratory system?

- A) Bronchi
- B) Bronchioles
- C) Alveoli
- D) Trachea

Answer: C) Alveoli

440. Which of the following is the primary organ responsible for producing and secreting sperm in the male reproductive system?

- A) Testes
- B) Epididymis

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ENTRANCE EXAM

C) Vas deferens

D) Prostate gland

Answer: A) Testes

Important questions

441. How many muscles are found in human body?

মানুহৰ শৰীৰত কিমানটা পেশী পোৱা যায়

i) 439

ii) 580

iii) 639

Ans: iii) 639

442. নেফ্রন কি?

Ans: বৃক্ক গঠনৰ প্ৰাথমিক একক

443. What is the weight of heart in an average human being?

এজন মানুহৰ হৃদযন্ত্ৰৰ ওজন কিমান?

Ans: 300gm

444. পাকস্থলী ৰসত থকা উপাদানৰ নাম

Ans: পেপচিন, ৰেনিন

445.What is the Percentage of calcium stored in bones?

হাড়ত সঞ্চিত কেলচিয়ামৰ শতাংশ কিমান?

Ans: 97%

446.উদ্ভিদৰ দেহৰ পৰিবহণত জড়িত থকা কলাবিধৰ নাম কি

Ans: জাইলেম

447. Which part of the human body produces voice?

মানৱ শৰীৰৰ কোনটো অংশই কণ্ঠ স্বৰ প্ৰস্তুত কৰে?

Ans: Vocal Cord (কণ্ঠনালী)

448.শুকান বীজ পানীত তিয়াই থলে ওফন্দি উঠে এই প্ৰক্ৰিয়াক কি বুলি কোৱা হয়

Ans: অৱশোষণ

449) How many bones are present in human body at birth?

জন্মৰ সময়ত মানুহৰ শৰীৰত কিমানটা হাড় থাকে

Ans: 300

450 What is the weight of the brain ?

মগজুৰ ওজন কিমান?

Ans: 1.36 kg

ENTRANCE EXAM

451. Which Part of the brain controls anger, fear and body temperature?

মগজৰ কোনটো অংশই খং, ভয়, শৰীৰৰ উষ্ণতা নিয়ন্ত্ৰণ কৰে?

Ans: Hypothalamus

452. What is the unit of Force?

বলৰ একক কি?

Ans: Newton

453. What is the pH value of urine?

প্ৰস্ৰাৱৰ পিএইচ মান কিমান?

Ans: 6

454. Which of the following is the vector quantity

নিম্নলিখিত কোনটো ভেক্টৰ পৰিমাণ

- i) Temperature
- ii) Time
- iii) Momentum

Ans: iii) Momentum

455. Name the gland which controlled blood pressure?

ৰক্তচাপ নিয়ন্ত্ৰণ কৰা গ্ৰন্থিটোৰ নাম কি?

B.SC NURSING

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Ans: Adrenal gland

456. What is the SI unit of Frequency?

ফ্রিকুৱেন্সিৰ এছআই একক কি?

- i) Hz
- ii) N
- iii) Volt

Ans: i) Hz

457. Which body part doesn't need Oxygen from body?

শৰীৰৰ কোনটো অংশত শৰীৰৰ পৰা অক্সিজেনৰ প্ৰয়োজন নাই?

- i) Hair
- ii) Nails
- iii) Cornea

Ans: iii) Cornea

558. What are nails made of?

- i) Calcium
- ii) Oxygen
- iii) Keratine

Ans: iii) Keratine

B.SC NURSING

D.PHARM

ENTRANCE EXAM

459. What percentage water of the human body?

মানৱ শৰীৰৰ কিমান শতাংশ পানী?

- i) 50%
- ii) 60%
- iii) 70%
- iv) 80%

Ans; ii) 60%

460. What is the largest organ in the human body?

মানৱ শৰীৰৰ আটাইতকৈ ডাঙৰ অঙ্গ টো কি?

- i) Liver
- ii) Skin
- iii) Heart

Ans: iii) Skin

461. How many minimum lenses are used in a telescope ?

Ans: Two

462. What is the unit of resistance ?

Ans: Ohm

463. What is the S.I unit of Coulomb

Ans: Electronic charge

464. What is the S.I unit of time ?

Ans: Second

465. What is the SI unit of voltage ?

Ans: Volt

467. Speed of sound wave is maximum in

- a) Water
- b) Air
- c) Steel

Ans: Steel

468. The rate of increase of velocity is called-----

Ans: Acceleration

469. The term electricity was first used by-----

Ans: Sir William Gilbert

470. Which type of mirror used in solar cooker is

- a) Plane mirror
- b) Convex mirror
- c) Concave mirror

Ans: Plane mirror

471. The weight of an object is measured by-----

Ans: Spring balance

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ENTRANCE EXAM

472. Which of the following metal is used in thermometers?

- a) Copper
- b) Iron
- c) Mercury

Ans: Mercury

473. Name of the element which is common to all acids?

- a) Nitrogen
- b) Hydrogen
- c) Chlorine

Ans: b) Hydrogen

474. Which synthetic fibre is called is called artificial silk

- a) Acrylic
- b) Nylon
- c) Rayon

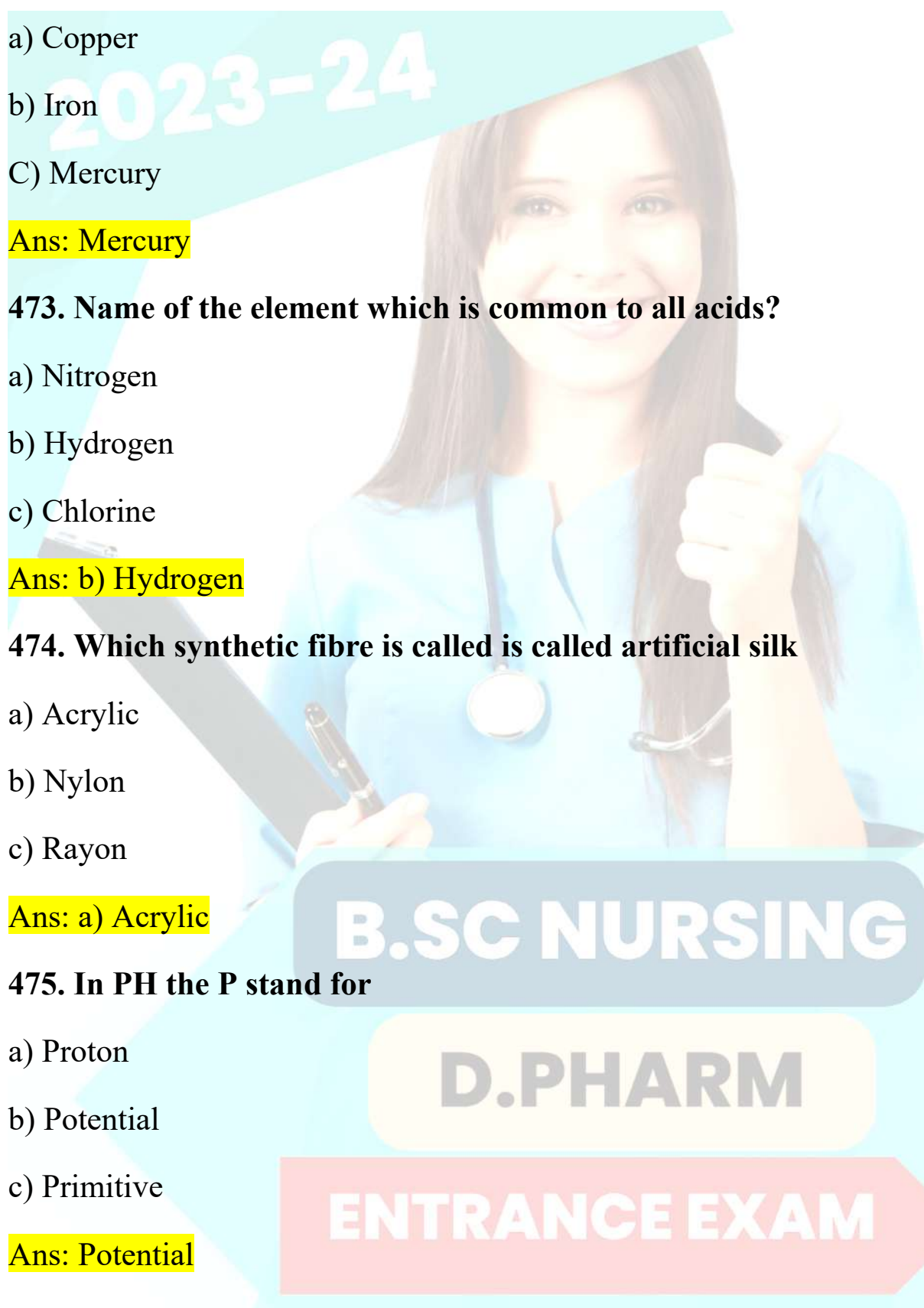
Ans: a) Acrylic

475. In PH the P stand for

- a) Proton
- b) Potential
- c) Primitive

Ans: Potential

476. which of the following is a natural indicator



a) Litmus

b) Methyl orange

c) Non of thes

Ans: Litmus

477. The symbol of mercury is-----

Ans: Hg

478. The deficiency disease is

a) Cancer

b) Jaundice

c) Scurvy

Ans: Scurvy

479. -----Helps in Making curd from milk

Ans: Lactobacillus

480. Decron is a-----

Ans: Synthetic polyester

481. Malaria is caused by which type of microbe?

Ans: Protoza

482. The Taste of acid is -----

Ans: Sour

B.SC NURSING

D.PHARM

ENTRANCE EXAM

G.N.M Entrance Examination 2023-24

Subject – General Science, English

Total Question =

Question Type: (MCQ)'s & short questions with answers

Preparing this **E-book** Named **GNM Entrance Examination 2023-24** and we have covered Subject wise questions and answer from **General Science, English,**subjects with a multitude Multiple choice questions (MCQ) & short questions with answers related to the topic and we hope our making this E-Book are paid off if the examines receive help in their preparation for the forthcoming B.Sc Nursing/ D.Pharm Entrance Examination

We are wishing you all a magnificent success in the forthcoming G.N.M Entrance Examinations and have a prosperous career ahead.

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1.Which of the following is an example of scalar quantity?

- a. Velocity
- b. Force
- c. Time
- d. Acceleration

Answer: c. Time

2.What is the SI unit of force?

- a. Joule
- b. Newton
- c. Watt
- d. Meter

Answer: b. Newton

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ENTRANCE EXAM

3.The momentum of a body is given by:

- a. mass x velocity
- b. mass x acceleration
- c. force x displacement
- d. force x time

Answer: a. mass x velocity

4.The rate of change of momentum of a body is equal to:

- a. the force acting on the body
- b. the mass of the body
- c. the velocity of the body
- d. the acceleration of the body

Answer: a. the force acting on the body

5.Which of the following is an example of a contact force?

- a. Gravitational force
- b. Magnetic force
- c. Frictional force
- d. Electrostatic force

Answer: c. Frictional force

6.Which of the following is an example of a non-contact force?

- a. Tension force
- b. Normal force
- c. Gravitational force
- d. Frictional force

Answer: c. Gravitational force

7.The speed of light is:

- a. 3×10^5 m/s
- b. 3×10^7 m/s
- c. 3×10^8 m/s
- d. 3×10^9 m/s

Answer: c. 3×10^8 m/s

8.The power of a machine is given by:

- a. force x velocity
- b. work/time
- c. energy/time
- d. mass x acceleration

Answer: b. work/time

9.What is the unit of power?

- a. Watt
- b. Joule
- c. Newton
- d. Meter

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Answer: a. Watt

10.What is the unit of electric charge?

- a. Volt
- b. Ampere
- c. Coulomb
- d. Ohm

Answer: c. Coulomb

11.The resistance of a conductor depends on:

- a. its length
- b. its cross-sectional area
- c. its material
- d. all of the above

Answer: d. all of the above

12.Ohm's law states that:

- a. current is directly proportional to voltage
- b. voltage is directly proportional to resistance
- c. current is inversely proportional to resistance
- d. resistance is directly proportional to the square of the current

Answer: a. current is directly proportional to voltage

13.Which of the following is an example of an insulator?

- a. Copper
- b. Aluminum
- c. Glass
- d. Iron

Answer: c. Glass

14.Which of the following is an example of a good conductor of electricity?

- a. Rubber
- b. Wood
- c. Silver
- d. Plastic

Answer: c. Silver

15.Which of the following is an example of a renewable source of energy?

- a. Coal
- b. Natural gas
- c. Solar energy
- d. Petroleum

Answer: c. Solar energy

16.Which of the following is an example of a non-renewable source of energy?

- a. Wind energy
- b. Hydro energy
- c. Coal

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d. Solar energy

Answer: c. Coal

17.The process of conversion of solid directly into vapours without melting is called:

- a. Condensation
- b. Sublimation
- c. Evaporation
- d. Melting

Answer: b. Sublimation

18.Which of the following is an example of an irreversible process?

- a. Boiling of water
- b. Melting of ice
- c. Burning of wood
- d. Freezing of water

Answer: c. Burning of wood

19.Which of the following is an example of a longitudinal wave?

- a. Sound wave
- b. Water wave
- c. Light wave
- d. Electromagnetic wave

Answer: a. Sound wave

20.The process of separating different components of a mixture by using their different boiling points is called:

- a. Filtration
- b. Evaporation
- c. Distillation
- d. Decantation

Answer: c. Distillation

21.Which of the following is an example of a balanced force?

- a. A car accelerating on a straight road
- b. A ball rolling down a hill
- c. A book lying on a table
- d. A person pushing a box across a floor at a constant speed

Answer: c. A book lying on a table

22.Which of the following is an example of a simple machine?

- a. A screw
- b. A battery
- c. A spring
- d. A motor

Answer: a. A screw

23.Which of the following is an example of a non-ohmic conductor?

- a. Copper wire

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- b. Carbon resistor
- c. Filament bulb
- d. Zinc plate

Answer: c. Filament bulb

24.The electric potential at a point is defined as:

- a. the work done in moving a unit charge from infinity to that point
- b. the force experienced by a unit charge at that point
- c. the charge density at that point
- d. the electric field intensity at that point

Answer: a. the work done in moving a unit charge from infinity to that point

25.Which of the following is an example of an alternating current (AC)?

- a. A battery
- b. A solar panel
- c. A hydroelectric power plant
- d. A generator

Answer: d. A generator

26.Which of the following is an example of a direct current (DC)?

- a. A battery
- b. A solar panel
- c. An electric motor
- d. A transformer

Answer: a. A battery

27.The minimum speed required by an object to escape the gravitational pull of a planet is called:

- a. escape velocity
- b. terminal velocity
- c. relative velocity
- d. instantaneous velocity

Answer: a. escape velocity

28.Which of the following is an example of a projectile motion?

- a. A car moving on a straight road
- b. A boat floating on a river
- c. A rocket launching into space
- d. A ball rolling on the ground

Answer: c. A rocket launching into space

29.The force of attraction between two masses is directly proportional to:

- a. the product of their masses
- b. the distance between them
- c. the square of their masses
- d. the cube of their masses

Answer: a. the product of their masses

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30.The maximum displacement of a vibrating particle from its mean position is called:

- a. amplitude
- b. frequency
- c. wavelength
- d. period

Answer: a. amplitude

31.Which of the following is an example of a non-conservative force?

- a. Gravitational force
- b. Electric force
- c. Frictional force
- d. Magnetic force

Answer: c. Frictional force

32.Which of the following is an example of a conservative force?

- a. Frictional force
- b. Electric force
- c. Gravitational force
- d. Magnetic force

Answer: c. Gravitational force

33.Which of the following is the unit of electric charge?

- a. Joule
- b. Volt
- c. Ohm
- d. Coulomb

Answer: d. Coulomb

34.Which of the following is the unit of electric current?

- a. Coulomb
- b. Ampere
- c. Volt
- d. Ohm

Answer: b. Ampere

35.Which of the following is the unit of electric potential difference?

- a. Volt
- b. Coulomb
- c. Ampere
- d. Ohm

Answer: a. Volt

36.Which of the following is the unit of electric resistance?

- a. Ohm
- b. Volt
- c. Ampere
- d. Coulomb

Answer: a. Ohm

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37. Which of the following is the unit of power?

- a. Joule
- b. Watt
- c. Newton
- d. Kilogram

Answer: b. Watt

38. Which of the following is the unit of work?

- a. Watt
- b. Joule
- c. Newton
- d. Kilogram

Answer: b. Joule

39. The rate of change of momentum is equal to:

- a. force
- b. acceleration
- c. velocity
- d. mass

Answer: a. force

40. The acceleration due to gravity is greatest at:

- a. the equator
- b. the poles
- c. the tropics
- d. the mid-latitudes

Answer: a. the equator

41. Which of the following is an example of a transparent material?

- a. Paper
- b. Wood
- c. Glass
- d. Metal

Answer: c. Glass

42. Which of the following is an example of a translucent material?

- a. Paper
- b. Wood
- c. Glass
- d. Metal

Answer: a. Paper

43. Which of the following is an example of an opaque material?

- a. Glass
- b. Water
- c. Aluminum foil
- d. Plastic bag

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Answer: c. Aluminum foil

44. Which of the following is an example of a converging lens?

- a. Plano-convex lens
- b. Plano-concave lens
- c. Biconvex lens
- d. Biconcave lens

Answer: c. Biconvex lens

45. Which of the following is an example of a diverging lens?

- a. Plano-convex lens
- b. Plano-concave lens
- c. Biconvex lens
- d. Biconcave lens

Answer: b. Plano-concave lens

46. Which of the following is an example of a renewable source of energy?

- a. Coal
- b. Natural gas
- c. Solar power
- d. Petroleum

Answer: c. Solar power

47. Which of the following is an example of a non-renewable source of energy?

- a. Wind power
- b. Geothermal power
- c. Nuclear power
- d. Hydro power

Answer: c. Nuclear power

48. Which of the following is an example of a fossil fuel?

- a. Solar power
- b. Hydro power
- c. Coal
- d. Wind power

Answer: c. Coal

49. Which of the following is an example of a greenhouse gas?

- a. Oxygen
- b. Nitrogen
- c. Carbon dioxide
- d. Hydrogen

Answer: c. Carbon dioxide

50. Which of the following is an example of an insulator?

- a. Copper
- b. Aluminum
- c. Rubber

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d. Silver

Answer: c. Rubber

51. Which of the following types of waves can travel through a vacuum?

- a. Sound waves
- b. Light waves
- c. Radio waves
- d. Water waves

Answer: b. Light waves

52. Which of the following types of waves has the highest frequency?

- a. Radio waves
- b. Microwaves
- c. X-rays
- d. Infrared waves

Answer: c. X-rays

53. Which of the following types of waves has the longest wavelength?

- a. Radio waves
- b. Microwaves
- c. X-rays
- d. Infrared waves

Answer: a. Radio waves

54. Which of the following is an example of kinetic energy?

- a. a ball held at rest at the top of a hill
- b. a ball rolling down a hill
- c. a stretched rubber band
- d. a compressed spring

Answer: b. a ball rolling down a hill

55. Which of the following is an example of potential energy?

- a. a ball held at rest at the top of a hill
- b. a ball rolling down a hill
- c. a stretched rubber band
- d. a compressed spring

Answer: a. a ball held at rest at the top of a hill

57. Which of the following is an example of a simple machine?

- a. a bicycle
- b. a lever
- c. a car engine
- d. a computer

Answer: b. a lever

58. Which of the following is an example of an inclined plane?

- a. a screw
- b. a pulley

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- c. a wheel and axle
- d. a wedge

Answer: d. a wedge

60. Which of the following is a scalar quantity?

- a. displacement
- b. velocity
- c. acceleration
- d. mass

Answer: d. mass

61. Which of the following is a vector quantity?

- a. work
- b. energy
- c. power
- d. force

Answer: d. force

63. Which of the following is a unit of power?

- a. joule
- b. watt
- c. newton
- d. kilogram

Answer: b. watt

64. Which of the following is a unit of force?

- a. joule
- b. watt
- c. newton
- d. kilogram

Answer: c. newton

65. Which of the following is a unit of energy?

- a. joule
- b. watt
- c. newton
- d. kilogram

Answer: a. joule

66. Which of the following is a unit of work?

- a. joule
- b. watt
- c. newton
- d. kilogram

Answer: a. joule

67. Which of the following is an example of a non-renewable energy resource?

- a. solar energy

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- b. wind energy
- c. geothermal energy
- d. fossil fuels

Answer: d. fossil fuels

68. Which of the following is an example of a renewable energy resource?

- a. nuclear energy
- b. coal
- c. hydroelectric energy
- d. natural gas

Answer: c. hydroelectric energy

69. Which of the following is an example of a greenhouse gas?

- a. oxygen
- b. nitrogen
- c. carbon dioxide
- d. argon

Answer: c. carbon dioxide

70. The process by which plants use sunlight to convert carbon dioxide and water into glucose and oxygen is called:

- a. respiration
- b. combustion
- c. photosynthesis
- d. fermentation

Answer: c. photosynthesis

71. What is the function of Ribosomes in cells?

- a) Produce energy
- b) Synthesize proteins
- c) Store genetic material
- d) Transport molecules

Answer: b) Synthesize proteins

72. Which of the following is not a primary color?

- a) Red
- b) Blue
- c) Yellow
- d) White

Answer: d) White

73. Which of the following is not a greenhouse gas?

- a) Carbon dioxide
- b) Methane
- c) Oxygen
- d) Nitrous oxide

Answer: c) Oxygen

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74. Which of the following is not a state of matter?

- a) Solid
- b) Liquid
- c) Gas
- d) Plasma

Answer: d) Plasma

75. Which of the following is not a renewable energy source?

- a) Solar energy
- b) Wind energy
- c) Fossil fuels
- d) Hydroelectric energy

Answer: c) Fossil fuels

76. Which of the following is a vector quantity?

- a) Speed
- b) Temperature
- c) Distance
- d) Velocity

Answer: d) Velocity

77. Which of the following is not a function of the respiratory system?

- a) Gas exchange
- b) Transport of oxygen
- c) Regulation of body temperature
- d) Removal of carbon dioxide

Answer: c) Regulation of body temperature

78. Which of the following is not a component of the circulatory system?

- a) Heart
- b) Blood vessels
- c) Lungs
- d) Blood

Answer: c) Lungs

79. Which of the following is a non-metal?

- a) Iron
- b) Copper
- c) Carbon
- d) Sodium

Answer: c) Carbon

80. Which of the following is not a type of electromagnetic radiation?

- a) X-rays
- b) Radio waves
- c) Sound waves
- d) Gamma rays

Answer: c) Sound waves

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81. Which of the following is not a part of the nervous system?

- a) Brain
- b) Spinal cord
- c) Heart
- d) Nerves

Answer: c) Heart

82. Which of the following is not a type of simple machine?

- a) Pulley
- b) Screw
- c) Wheel and axle
- d) Gear

Answer: d) Gear

83. Which of the following is not a characteristic of a living organism?

- a) Reproduction
- b) Growth and development
- c) Movement
- d) Inorganic composition

Answer: d) Inorganic composition

84. Which of the following is not an example of a chemical change?

- a) Burning of wood
- b) Rusting of iron
- c) Melting of ice
- d) Digestion of food

Answer: c) Melting of ice

85. Which of the following is not a part of the water cycle?

- a) Evaporation
- b) Condensation
- c) Precipitation
- d) Filtration

Answer: d) Filtration

86. Which of the following is not a type of tissue in the human body?

- a) Muscle tissue
- b) Nerve tissue
- c) Blood tissue
- d) Bone tissue

Answer: c) Blood tissue

87. Which of the following is not an example of a renewable resource?

- a) Trees
- b) Coal
- c) Wind
- d) Water

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Answer: b) Coal

88. Which of the following is not a planet in our solar system?

- a) Jupiter
- b) Mars
- c) Saturn
- d) Andromeda

Answer: d) Andromeda

89. Which of the following is not a source of air pollution?

- a) Factories
- b) Cars
- c) Trees
- d) Construction sites

Answer: c) Trees

90. Which of the following is not a type of electromagnetic radiation?

- a) Infrared radiation
- b) Ultraviolet radiation
- c) Microwave radiation
- d) Sound waves

Answer: d) Sound waves

91. Which of the following is not a type of animal tissue?

- a) Epithelial tissue
- b) Connective tissue
- c) Nerve tissue
- d) Photosynthetic tissue

Answer: d) Photosynthetic tissue

92. Which of the following is not a function of the liver?

- a) Filtering blood
- b) Producing bile
- c) Regulating blood sugar
- d) Pumping blood

Answer: d) Pumping blood

93. Which of the following is not a form of energy?

- a) Heat
- b) Light
- c) Sound
- d) Time

Answer: d) Time

94. Which of the following is not a type of electromagnetic wave?

- a) Radio waves
- b) X-rays

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- c) Gamma rays
- d) Ultrasonic waves

Answer: d) Ultrasonic waves

95. Which of the following is not a renewable resource?

- a) Wind energy
- b) Geothermal energy
- c) Oil
- d) Hydroelectric energy

Answer: c) Oil

96. Which of the following is not a component of the digestive system?

- a) Liver
- b) Pancreas
- c) Lungs
- d) Stomach

Answer: c) Lungs

97. Which of the following is not a type of chemical bond?

- a) Covalent bond
 - b) Ionic bond
 - c) Hydrogen bond
 - d) Magnetic bond
- Answer: d) Magnetic bond

98. Which of the following is not a part of the excretory system?

- a) Kidneys
- b) Liver
- c) Bladder
- d) Lungs

Answer: b) Liver

99. Which of the following is not a type of electromagnetic radiation?

- a) Visible light
 - b) Infrared radiation
 - c) Ultraviolet radiation
 - d) Radio waves
- Answer: d) Radio waves

100. Which of the following is not a type of fossil fuel?

- a) Coal
- b) Oil
- c) Natural gas
- d) Solar energy

Answer: d) Solar energy

101. Which of the following is not a characteristic of sound waves?

- a) Reflection

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- b) Refraction
- c) Diffraction
- d) Dispersion

Answer: d) Dispersion

102. Which of the following is not a type of chemical reaction?

- a) Combustion reaction
- b) Acid-base reaction
- c) Subtraction reaction
- d) Synthesis reaction

Answer: c) Subtraction reaction

103. Which of the following is not a type of electromagnetic radiation?

- a) Cosmic rays
- b) Microwaves
- c) Infrared radiation
- d) Ultrasonic waves

Answer: d) Ultrasonic waves

105. Which of the following is not a part of the endocrine system?

- a) Adrenal gland
- b) Pituitary gland
- c) Liver
- d) Thyroid gland

Answer: c) Liver

106. Which of the following is not a type of energy transformation?

- a) Electrical to thermal
- b) Mechanical to electrical
- c) Chemical to sound
- d) Nuclear to electromagnetic

Answer: c) Chemical to sound

107. What is the process of conversion of food into energy called?

- a) Digestion
- b) Respiration
- c) Excretion
- d) Absorption

Answer: b) Respiration

108. Which of the following is not a respiratory organ?

- a) Lungs
- b) Gills
- c) Tracheae
- d) Stomata

Answer: d) Stomata

109. What is the process of removal of waste products from the body called?

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- a) Digestion
- b) Respiration
- c) Excretion
- d) Circulation

Answer: c) Excretion

110. Which of the following is not a part of the digestive system?

- a) Stomach
- b) Liver
- c) Kidneys
- d) Small intestine

Answer: c) Kidneys

111. What is the functional unit of the kidney called?

- a) Neuron
- b) Nephron
- c) Hormone
- d) Enzyme

Answer: b) Nephron

112. What is the process of breakdown of complex substances into simpler ones called?

- a) Metabolism
- b) Anabolism
- c) Catabolism
- d) Synthesis

Answer: c) Catabolism

113. Which of the following is not a type of blood vessel?

- a) Artery
- b) Vein
- c) Capillary
- d) Neuron

Answer: d) Neuron

114. What is the main function of white blood cells?

- a) To carry oxygen
- b) To fight infections
- c) To transport nutrients
- d) To remove waste products

Answer: b) To fight infections

115. Which of the following is not a component of blood?

- a) Red blood cells
- b) White blood cells
- c) Plasma
- d) Enzymes

Answer: d) Enzymes

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116.What is the process of transfer of oxygen from the lungs to the blood called?

- a) Inhalation
- b) Exhalation
- c) Diffusion
- d) Osmosis

Answer: c) Diffusion

117.Which of the following is not a part of the respiratory system?

- a) Trachea
- b) Bronchi
- c) Alveoli
- d) Kidneys

Answer: d) Kidneys

118.What is the process of breakdown of glucose to release energy in the absence of oxygen called?

- a) Fermentation
- b) Respiration
- c) Digestion
- d) Photosynthesis

Answer: a) Fermentation

119.Which of the following is not a type of muscle tissue?

- a) Skeletal muscle
- b) Cardiac muscle
- c) Smooth muscle
- d) Epithelial muscle

Answer: d) Epithelial muscle

120.What is the process of removal of excess water and salts from the body called?

- a) Osmosis
- b) Diffusion
- c) Filtration
- d) Excretion

Answer: d) Excretion

121.Which of the following is not a part of the human circulatory system?

- a) Heart
- b) Arteries
- c) Lungs
- d) Veins

Answer: c) Lungs

122.What is the process of synthesis of complex substances from simpler ones called?

- a) Metabolism
- b) Anabolism
- c) Catabolism
- d) Fermentation

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Answer: b) Anabolism

123. Which of the following is responsible for carrying oxygen in the blood?

- a) Red blood cells
- b) White blood cells
- c) Platelets
- d) Plasma

124. What is the process of breakdown of food into simpler substances in the mouth called?

- a) Digestion
- b) Respiration
- c) Assimilation
- d) Secretion

Answer: a) Digestion

125. Which of the following is not a type of carbohydrate?

- a) Glucose
- b) Sucrose
- c) Cellulose
- d) Keratin

Answer: d) Keratin

126. What is the process of removal of undigested waste material from the body called?

- a) Digestion
- b) Respiration
- c) Excretion
- d) Circulation

Answer: c) Excretion

127. Which of the following is responsible for the breakdown of proteins in the stomach?

- a) Bile
- b) Hydrochloric acid
- c) Pancreatic juice
- d) Saliva

Answer: b) Hydrochloric acid

128. Which of the following is not a part of the human digestive system?

- a) Pancreas
- b) Gallbladder
- c) Spleen
- d) Large intestine

Answer: c) Spleen

129. Which of the following is the process of the conversion of light energy into chemical energy?

- a) Fermentation
- b) Respiration
- c) Photosynthesis

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d) Digestion

Answer: c) Photosynthesis

130. Which of the following is the smallest unit of life?

- a) Cell
- b) Organ
- c) Tissue
- d) Organism

Answer: a) Cell

131. Which of the following is responsible for carrying nutrients in the blood?

- a) Red blood cells
- b) White blood cells
- c) Platelets
- d) Plasma

Answer: d) Plasma

132. Which of the following is not a type of gland in the human body?

- a) Sweat gland
- b) Salivary gland
- c) Thyroid gland
- d) Testis gland

Answer: d) Testis gland

134. Which of the following is not a type of tissue in the human body?

- a) Nervous tissue
- b) Epithelial tissue
- c) Muscular tissue
- d) Circulatory tissue

Answer: d) Circulatory tissue

135. Which of the following is not a part of the human excretory system?

- a) Kidney
- b) Bladder
- c) Liver
- d) Urethra

Answer: c) Liver

136. Which of the following is not a type of joint in the human body?

- a) Hinge joint
- b) Ball and socket joint
- c) Pivot joint
- d) Smooth joint

Answer: d) Smooth joint

137. Which of the following is responsible for the transport of water and minerals in plants?

- a) Xylem
- b) Phloem

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- c) Stomata
- d) Cambium

Answer: a) Xylem

138. What is the process of breakdown of food into simpler substances in the mouth called?

- a) Digestion
- b) Respiration
- c) Assimilation
- d) Secretion

Answer: a) Digestion

139. Which of the following is not a type of carbohydrate?

- a) Glucose
- b) Sucrose
- c) Cellulose
- d) Keratin

Answer: d) Keratin

140. What is the process of removal of undigested waste material from the body called?

- a) Digestion
- b) Respiration
- c) Excretion
- d) Circulation

Answer: c) Excretion

141. Which of the following is responsible for the breakdown of proteins in the stomach?

- a) Bile
- b) Hydrochloric acid
- c) Pancreatic juice
- d) Saliva

Answer: b) Hydrochloric acid

142. Which of the following is not a part of the human digestive system?

- a) Pancreas
- b) Gallbladder
- c) Spleen
- d) Large intestine

Answer: c) Spleen

145. Which of the following is the process of the conversion of light energy into chemical energy?

- a) Fermentation
- b) Respiration
- c) Photosynthesis
- d) Digestion

Answer: c) Photosynthesis

146. Which of the following is the smallest unit of life?

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- a) Cell
- b) Organ
- c) Tissue
- d) Organism

Answer: a) Cell

147. Which of the following is responsible for carrying nutrients in the blood?

- a) Red blood cells
- b) White blood cells
- c) Platelets
- d) Plasma

Answer: d) Plasma

148. Which of the following is not a type of gland in the human body?

- a) Sweat gland
- b) Salivary gland
- c) Thyroid gland
- d) Testis gland

Answer: d) Testis gland

149. Which of the following is not a type of tissue in the human body?

- a) Nervous tissue
- b) Epithelial tissue
- c) Muscular tissue
- d) Circulatory tissue

Answer: d) Circulatory tissue

150. Which of the following is not a part of the human excretory system?

- a) Kidney
- b) Bladder
- c) Liver
- d) Urethra

Answer: c) Liver

152. Which of the following is not a type of joint in the human body?

- a) Hinge joint
- b) Ball and socket joint
- c) Pivot joint
- d) Smooth joint

Answer: d) Smooth joint

153. Which of the following is responsible for the transport of water and minerals in plants?

- a) Xylem
- b) Phloem
- c) Stomata
- d) Cambium

Answer: a) Xylem

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154. Which of the following is responsible for carrying oxygen in the blood?

- a) Red blood cells
- b) White blood cells
- c) Platelets
- d) Plasma

Answer: a) Red blood cells

155. Which of the following is not a respiratory pigment found in animals?

- a) Hemoglobin
- b) Chlorophyll
- c) Hemocyanin
- d) Hemerythrin

Answer: b) Chlorophyll

156. What is the process of removal of undigested waste material from the body called?

- a) Digestion
- b) Respiration
- c) Excretion
- d) Circulation

Answer: c) Excretion

157. Which of the following is responsible for the breakdown of proteins in the stomach?

- a) Bile
- b) Hydrochloric acid
- c) Pancreatic juice
- d) Saliva

Answer: b) Hydrochloric acid

158. Which of the following is the smallest unit of life?

- a) Cell
- b) Organ
- c) Tissue
- d) Organism

Answer: a) Cell

159. Which of the following is responsible for carrying nutrients in the blood?

- a) Red blood cells
- b) White blood cells
- c) Platelets
- d) Plasma

Answer: d) Plasma

160. Which of the following is responsible for the transport of water and minerals in plants?

- a) Xylem
- b) Phloem
- c) Stomata
- d) Cambium

Answer: a) Xylem

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161. What is the process of conversion of food into energy called?

- a) Respiration
- b) Digestion
- c) Assimilation
- d) Excretion

Answer: a) Respiration

162. Which of the following is not a type of muscle tissue in the human body?

- a) Skeletal muscle
- b) Smooth muscle
- c) Cardiac muscle
- d) Nervous muscle

Answer: d) Nervous muscle

163. Which of the following is the process of the release of energy from food in the absence of oxygen?

- a) Fermentation
- b) Respiration
- c) Photosynthesis
- d) Digestion

Answer: a) Fermentation

164. Which of the following is responsible for the production of insulin in the human body?

- a) Pancreas
- b) Liver
- c) Kidney
- d) Spleen

Answer: a) Pancreas

165. Which of the following is not a type of plant tissue?

- a) Meristematic tissue
- b) Permanent tissue
- c) Epidermal tissue
- d) Contractile tissue

Answer: d) Contractile tissue

166. Which of the following is the process of the breakdown of glucose in the presence of oxygen to release energy?

- a) Fermentation
- b) Respiration
- c) Photosynthesis
- d) Digestion

Answer: b) Respiration

167. Which of the following is responsible for the synthesis of proteins in the human body?

- a) Ribosomes
- b) Lysosomes

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- c) Mitochondria
- d) Nucleus

Answer: a) Ribosomes

168. Which of the following is the process of the movement of particles from a region of high concentration to a region of low concentration?

- a) Diffusion
- b) Osmosis
- c) Active transport
- d) Facilitated transport

Answer: a) Diffusion

169. Which of the following is responsible for the production of eggs in females?

- a) Ovaries
- b) Fallopian tubes
- c) Uterus
- d) Vagina

Answer: a) Ovaries

170. Which of the following is not a property of acids?

- a) Acids turn blue litmus paper red
- b) Acids have a sour taste
- c) Acids react with bases to form salts
- d) Acids have a slippery texture

Answer: d) Acids have a slippery texture

171. Which of the following acids is not a mineral acid?

- a) Hydrochloric acid
- b) Sulfuric acid
- c) Nitric acid
- d) Acetic acid

Answer: d) Acetic acid

172. What is the pH of a neutral solution?

- a) 0
- b) 7
- c) 14
- d) Cannot be determined

Answer: b) 7

173. Which of the following acids is used in the preparation of soft drinks and baking powder?

- a) Hydrochloric acid
- b) Sulfuric acid
- c) Phosphoric acid
- d) Nitric acid

Answer: c) Phosphoric acid

174. Which of the following is not a strong acid?

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- a) Hydrochloric acid
- b) Sulfuric acid
- c) Acetic acid
- d) Nitric acid

Answer: c) Acetic acid

175. Which of the following is the pH of a strong acid?

- a) Less than 7
- b) Equal to 7
- c) Greater than 7
- d) Cannot be determined

Answer: a) Less than 7

176. Which of the following acids is used in the manufacturing of fertilizers?

- a) Hydrochloric acid
- b) Sulfuric acid
- c) Nitric acid
- d) Acetic acid

Answer: b) Sulfuric acid

177. Which of the following is a basic salt?

- a) NaCl
- b) CaCO_3
- c) MgSO_4
- d) NH_4NO_3

Answer: b) CaCO_3

178. Which of the following is a weak acid?

- a) Hydrochloric acid
- b) Sulfuric acid
- c) Nitric acid
- d) Acetic acid

Answer: d) Acetic acid

179. Which of the following acids is present in the stomach to aid digestion?

- a) Hydrochloric acid
- b) Sulfuric acid
- c) Nitric acid
- d) Acetic acid

Answer: a) Hydrochloric acid

180. Which of the following is NOT a property of acids?

- A) Sour taste
- B) Turns blue litmus paper red
- C) Reacts with metals to produce hydrogen gas
- D) Has a pH greater than 7

Answer: D) Has a pH greater than 7

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181. Which of the following is a strong acid?

- A) Acetic acid
- B) Hydrochloric acid
- C) Citric acid
- D) Carbonic acid

Answer: B) Hydrochloric acid

182. Which of the following is a weak acid?

- A) Hydrochloric acid
- B) Nitric acid
- C) Acetic acid
- D) Sulfuric acid

Answer: C) Acetic acid

183. Which of the following is the most commonly used indicator to test for acids?

- A) Methyl orange
- B) Phenolphthalein
- C) Litmus
- D) Universal indicator

Answer: C) Litmus

184. Which of the following is a common use of hydrochloric acid?

- A) Cleaning glass
- B) Making soap
- C) Baking bread
- D) Neutralizing bases

Answer: A) Cleaning glass

185. Which of the following is a common use of acetic acid?

- A) Making fertilizer
- B) Neutralizing bases
- C) Making vinegar
- D) Removing rust

Answer: C) Making vinegar

186. Which of the following is a common use of sulfuric acid?

- A) Making soft drinks
- B) Cleaning drains
- C) Baking powder
- D) Making soap

Answer: B) Cleaning drains

187. Which of the following is the pH range of acids?

- A) 0-7
- B) 7-14
- C) 1-6
- D) 8-14

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Answer: A) 0-7

188. Which of the following is the chemical formula of hydrochloric acid?

- A) HCl
- B) HNO₃
- C) H₂SO₄
- D) H₃PO₄

Answer: A) HCl

189. Which of the following is a common use of citric acid?

- A) Making soap
- B) Making fertilizer
- C) Flavoring foods and drinks
- D) Cleaning drains

Answer: C) Flavoring foods and drinks

190. Which of the following is a common use of nitric acid?

- A) Making fertilizer
- B) Cleaning glass
- C) Baking bread
- D) Neutralizing bases

Answer: A) Making fertilizer

191. Which of the following is the chemical formula of sulfuric acid?

- A) HCl
- B) HNO₃
- C) H₂SO₄
- D) H₃PO₄

Answer: C) H₂SO₄

192. Which of the following is a common use of hydrofluoric acid?

- A) Making soap
- B) Cleaning glass
- C) Making vinegar
- D) Neutralizing bases

Answer: B) Cleaning glass

193. Which of the following is a characteristic of a strong acid?

- A) Low ionization constant
- B) High pH
- C) High concentration of H⁺ ions
- D) Neutralizes bases slowly

Answer: C) High concentration of H⁺ ions

194. Which of the following is the pH of a neutral solution?

- A) 0
- B) 7
- C) 14

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D) None of the above

Answer: B) 7

195. Which of the following is a common use of phosphoric acid?

- A) Making fertilizer
- B) Cleaning glass
- C) Making vinegar
- D) Neutralizing bases

Answer: A) Making fertilizer

197. Which of the following is a common use of formic acid?

- A) Making soap
- B) Cleaning drains
- C) Flavoring foods and drinks
- D) Neutralizing bases

Answer: C) Flavoring foods and drinks

198. Which of the following is a common use of hydrochloric acid in the laboratory?

- A) Neutralizing bases
- B) Preparing gases
- C) Making soap
- D) Making fertilizer

Answer: B) Preparing gases

199. Which of the following is the chemical formula of acetic acid?

- A) HCl
- B) HNO₃
- C) CH₃COOH
- D) H₂SO₄

Answer: C) CH₃COOH

200. Which of the following is a common use of citric acid in the food industry?

- A) Making fertilizer
- B) Cleaning glass
- C) Flavoring foods and drinks
- D) Removing rust

Answer: C) Flavoring foods and drinks

201. Which of the following is a common use of hydrofluoric acid in the semiconductor industry?

- A) Cleaning glass
- B) Neutralizing bases
- C) Etching silicon wafers
- D) Making fertilizer

Answer: C) Etching silicon wafers

202. Which of the following is a characteristic of a weak acid?

- A) High ionization constant

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- B) Low pH
C) Low concentration of H^+ ions
D) Neutralizes bases quickly
Answer: C) Low concentration of H^+ ions

203. Which of the following is the pH of a strong acid?

- A) 0
B) 7
C) 14
D) Less than 7

Answer: D) Less than 7

204. Which of the following is a common use of nitric acid in the laboratory?

- A) Making soap
B) Cleaning glass
C) Making vinegar
D) Neutralizing bases
Answer: B) Cleaning glass

205. Which of the following is the chemical formula of nitric acid?

- A) HCl
B) HNO_3
C) H_2SO_4
D) H_3PO_4
Answer: B) HNO_3

206. Which of the following is the pH of a strong base?

- A) 0
B) 7
C) 14
D) Greater than 7
Answer: D) Greater than 7

207. Which of the following is a common use of hydroxylamine in the reduction of nitro compounds?

- A) Cleaning glass
B) Neutralizing bases
C) Making soap
D) Reducing nitro compounds
Answer: D) Reducing nitro compounds

208. Which of the following is a common use of sulfuric acid in the laboratory?

- A) Making soap
B) Preparing gases
C) Making vinegar
D) Neutralizing bases
Answer: B) Preparing gases

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209. Which of the following is a common use of formic acid in the leather industry?

- A) Cleaning drains
- B) Flavoring foods and drinks
- C) Tanning leather
- D) Neutralizing bases

Answer: C) Tanning leather

210. Which of the following is the chemical formula of carbonic acid?

- A) HCl
- B) HNO₃
- C) H₂SO₄
- D) H₂CO₃

Answer: D) H₂CO₃

211. Which of the following is the chemical formula of hydrochloric acid?

- A) HCl
- B) HNO₃
- C) H₂SO₄
- D) H₃PO₄

Answer: A) HCl

212. Which of the following is a common use of hydrochloric acid in the food industry?

- A) Making soap
- B) Cleaning glass
- C) Removing rust
- D) Flavoring foods and drinks

Answer: C) Removing rust

213. Which of the following is a characteristic of a neutral solution?

- A) Low concentration of H⁺ ions
- B) High concentration of OH⁻ ions
- C) pH of 7
- D) All of the above

Answer: D) All of the above

214. Which of the following is a common use of citric acid in the pharmaceutical industry?

- A) Making fertilizer
- B) Cleaning glass
- C) Flavoring medicines
- D) Neutralizing bases

Answer: C) Flavoring medicines

215. Which of the following is the pH of a weak base?

- A) 0
- B) 7
- C) 14
- D) Less than 7

Answer: D) Less than 7

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216. Which of the following is a common use of acetic acid in the food industry?

- A) Making soap
- B) Cleaning drains
- C) Flavoring foods and drinks
- D) Making fertilizer

Answer: C) Flavoring foods and drinks

217. Which of the following is a common use of phosphoric acid in the food industry?

- A) Making fertilizer
- B) Cleaning glass
- C) Making vinegar
- D) Acidifying soft drinks

Answer: D) Acidifying soft drinks

218. Which of the following is a common use of nitric acid in the mining industry?

- A) Making fertilizer
- B) Cleaning glass
- C) Dissolving metals
- D) Neutralizing bases

Answer: C) Dissolving metals

219. Which of the following is a common use of formic acid in the rubber industry?

- A) Making soap
- B) Cleaning drains
- C) Tanning leather
- D) Vulcanizing rubber

Answer: D) Vulcanizing rubber

220. Which of the following is the pH of a weak acid?

- A) 0
- B) 7
- C) 14
- D) Less than 7

Answer: D) Less than 7

221. Which of the following is a characteristic of an acid?

- A) High concentration of OH⁻ ions
- B) pH of 7
- C) Low concentration of H⁺ ions
- D) None of the above

Answer: C) Low concentration of H⁺ ions

223. Which of the following is the chemical formula of sulfuric acid?

- A) HCl
- B) HNO₃
- C) H₂SO₄
- D) H₃PO₄

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Answer: C) H_2SO_4

224. Which of the following is a common use of hydrochloric acid in the textile industry?

- A) Making soap
- B) Cleaning glass
- C) Neutralizing bases
- D) Dyeing textiles

Answer: D) Dyeing textiles

225. Which of the following is a common use of oxalic acid in the cleaning industry?

- A) Tanning leather
- B) Cleaning glass
- C) Making soap
- D) Neutralizing bases

Answer: B) Cleaning glass

226. Which of the following is a common use of acetic acid in the laboratory?

- A) Making soap
- B) Preparing gases
- C) Neutralizing bases
- D) Dissolving metals

Answer: B) Preparing gases

227. Which of the following is the pH of a neutral solution?

- A) 0
- B) 7
- C) 14
- D) Greater than 7

Answer: B) 7

228. Which of the following is a common use of hydrofluoric acid in the petroleum industry?

- A) Cleaning glass
- B) Neutralizing bases
- C) Dissolving minerals
- D) Making fertilizer

Answer: C) Dissolving minerals

229. Which of the following is a common use of formic acid in the agriculture industry?

- A) Making soap
- B) Cleaning drains
- C) Tanning leather
- D) Preserving silage

Answer: D) Preserving silage

230. Which of the following is a common use of nitric acid in the fertilizer industry?

- A) Cleaning glass
- B) Neutralizing bases
- C) Making soap

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D) Making fertilizers

Answer: D) Making fertilizers

231. Which of the following is a common use of phosphoric acid in the dental industry?

- A) Cleaning glass
- B) Neutralizing bases
- C) Acidifying soft drinks
- D) Dissolving minerals in teeth

Answer: C) Acidifying soft drinks

232. Which of the following is the chemical formula of nitric acid?

- A) HCl
- B) HNO_3
- C) H_2SO_4
- D) H_3PO_4

Answer: B) HNO_3

233. Which of the following is a common use of sulfuric acid in the automotive industry?

- A) Making soap
- B) Cleaning glass
- C) Making batteries
- D) Neutralizing bases

Answer: C) Making batteries

234. Which of the following is a characteristic of a strong acid?

- A) Low concentration of H^+ ions
- B) High concentration of OH^- ions
- C) pH of 7
- D) High concentration of H^+ ions

Answer: D) High concentration of H^+ ions

235. Which of the following is a common use of hydrochloric acid in the chemical industry?

- A) Making fertilizer
- B) Cleaning glass
- C) Making soap
- D) Neutralizing bases

Answer: B) Cleaning glass

236. Which of the following is a common use of citric acid in the cosmetic industry?

- A) Making soap
- B) Cleaning drains
- C) Flavoring cosmetics
- D) Neutralizing bases

Answer: C) Flavoring cosmetics

237. Which of the following is a common use of acetic acid in the textile industry?

- A) Making soap
- B) Cleaning drains

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- C) Dyeing textiles
 - D) Neutralizing bases
- Answer: C) Dyeing textiles

238. Which of the following is a common use of formic acid in the leather industry?

- A) Making soap
 - B) Cleaning drains
 - C) Tanning leather
 - D) Neutralizing bases
- Answer: C) Tanning leather

239. Which of the following is the pH of a strong base?

- A) 0
 - B) 7
 - C) 14
 - D) Greater than 7
- Answer: D) Greater than 7

240. Which of the following is a common use of phosphoric acid in the metallurgical industry?

- A) Making fertilizer
 - B) Cleaning glass
 - C) Dissolving minerals
 - D) Neutralizing bases
- Answer: C) Dissolving minerals

241. Which of the following is a common use of hydrofluoric acid in the glass industry?

- A) Neutralizing bases
 - B) Dissolving minerals
 - C) Making fertilizer
 - D) Cleaning glass
- Answer: B) Dissolving minerals

242. Which of the following is the chemical formula of hydrochloric acid?

- A) HCl
 - B) HNO₃
 - C) H₂SO₄
 - D) H₃PO₄
- Answer: A) HCl

243. Which of the following is a common use of nitric acid in the electronics industry?

- A) Making fertilizer
 - B) Cleaning glass
 - C) Etching metals
 - D) Neutralizing bases
- Answer: C) Etching metals

244. Which of the following is a characteristic of a weak acid?

- A) Low concentration of H⁺ ions

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- B) High concentration of OH⁻ ions
C) pH of 7
D) High concentration of H⁺ ions
Answer: A) Low concentration of H⁺ ions

245. Which of the following is a common use of acetic acid in the food industry?

- A) Making soap
B) Cleaning drains
C) Flavoring foods
D) Neutralizing bases

Answer: C) Flavoring foods

246. Which of the following is a common use of phosphoric acid in the beverage industry?

- A) Cleaning glass
B) Neutralizing bases
C) Making fertilizer
D) Acidifying soft drinks

Answer: D) Acidifying soft drinks

247. Which of the following is a common use of formic acid in the rubber industry?

- A) Making soap
B) Cleaning drains
C) Preserving rubber
D) Neutralizing bases

Answer: C) Preserving rubber

248. Which of the following is a common use of hydrofluoric acid in the metalworking industry?

- A) Cleaning glass
B) Neutralizing bases
C) Etching metals
D) Making fertilizer

Answer: C) Etching metals

249. Which of the following is the pH of a weak acid?

- A) 0
B) 7
C) 14
D) Less than 7

Answer: D) Less than 7

250. Which of the following is a common use of sulfuric acid in the fertilizer industry?

- A) Cleaning glass
B) Neutralizing bases
C) Making soap
D) Making fertilizers

Answer: D) Making fertilizers

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251. Which of the following is a common use of hydrochloric acid in the food industry?

- A) Making soap
- B) Cleaning drains
- C) Neutralizing bases
- D) Acidifying food

Answer: D) Acidifying food

252. Which of the following is a characteristic of a basic solution?

- A) High concentration of H^+ ions
- B) High concentration of OH^- ions
- C) pH of 7
- D) Low concentration of H^+ ions

Answer: B) High concentration of OH^- ions

253. Which of the following is a common use of sodium hydroxide in the soap-making industry?

- A) Neutralizing acids
- B) Making fertilizers
- C) Making glass
- D) Cleaning drains

Answer: A) Neutralizing acids

254. Which of the following is a common use of calcium hydroxide in agriculture?

- A) Neutralizing acids
- B) Making fertilizers
- C) Making glass
- D) Cleaning drains

Answer: A) Neutralizing acids

255. Which of the following is a common use of ammonia in the cleaning industry?

- A) Neutralizing acids
- B) Making fertilizers
- C) Making glass
- D) Cleaning drains

Answer: D) Cleaning drains

256. Which of the following is a common use of sodium carbonate in the glass-making industry?

- A) Neutralizing acids
- B) Making fertilizers
- C) Making glass
- D) Cleaning drains

Answer: C) Making glass

257. Which of the following is a characteristic of a salt?

- A) It is always acidic
- B) It is always basic
- C) It is always neutral

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D) It is formed from the reaction between an acid and a base

Answer: D) It is formed from the reaction between an acid and a base

258. Which of the following is the chemical formula for common salt?

- A) NaOH
- B) NaCl
- C) CaCO₃
- D) H₂SO₄

Answer: B) NaCl

259. Which of the following is a common use of baking soda (sodium bicarbonate) in the food industry?

- A) Cleaning drains
- B) Neutralizing acids
- C) Making glass
- D) Whitening teeth

Answer: B) Neutralizing acids

260. Which of the following is the chemical formula for calcium chloride?

- A) CaCl₂
- B) NaCl
- C) KCl
- D) MgCl₂

Answer: A) CaCl₂

261. Which of the following is a common use of potassium chloride in the fertilizer industry?

- A) Making soap
- B) Neutralizing acids
- C) Making glass
- D) Making fertilizers

Answer: D) Making fertilizers

262. Which of the following is a characteristic of an acidic solution?

- A) High concentration of H⁺ ions
- B) High concentration of OH⁻ ions
- C) pH of 7
- D) Low concentration of H⁺ ions

Answer: A) High concentration of H⁺ ions

263. Which of the following is the chemical formula for baking soda (sodium bicarbonate)?

- A) NaOH
- B) NaCl
- C) NaHCO₃
- D) H₂SO₄

Answer: C) NaHCO₃

264. Which of the following is a common use of hydrochloric acid in the chemical industry?

- A) Making fertilizers

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- B) Cleaning drains
C) Making glass
D) Whitening teeth
Answer: C) Making glass

265. Which of the following is a common use of sulfuric acid in the chemical industry?

- A) Making fertilizers
B) Cleaning drains
C) Making glass
D) Whitening teeth
Answer: A) Making fertilizers

266. Which of the following is a characteristic of a neutral solution?

- A) High concentration of H^+ ions
B) High concentration of OH^- ions
C) pH of 7
D) Low concentration of H^+ ions
Answer: C) pH of 7

267. Which of the following is the chemical formula for magnesium hydroxide?

- A) $Mg(OH)_2$
B) NaCl
C) KCl
D) $CaCO_3$
Answer: A) $Mg(OH)_2$

268. Which of the following is a common use of hydrochloric acid in the food industry?

- A) Making fertilizers
B) Cleaning drains
C) Making cheese
D) Whitening teeth
Answer: C) Making cheese

269. Which of the following is the chemical formula for sodium hydroxide?

- A) NaOH
B) NaCl
C) $NaHCO_3$
D) H_2SO_4
Answer: A) NaOH

270. Which of the following is a common use of calcium chloride in the food industry?

- A) Making cheese
B) Cleaning drains
C) Making fertilizers
D) Whitening teeth
Answer: A) Making cheese

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271. Which of the following is a common use of potassium hydroxide in the soap-making industry?

- A) Neutralizing acids
- B) Making fertilizers
- C) Making glass
- D) Making soap

Answer: D) Making soap

272. Which of the following is a characteristic of a basic solution?

- A) High concentration of H^+ ions
 - B) High concentration of OH^- ions
 - C) pH of 7
 - D) Low concentration of OH^- ions
- Answer: B) High concentration of OH^- ions

273. Which of the following is the chemical formula for quicklime?

- A) $Ca(OH)_2$
- B) NaOH
- C) CaO
- D) $Mg(OH)_2$

Answer: C) CaO

274. Which of the following is a common use of sodium hydroxide in the chemical industry?

- A) Making fertilizers
 - B) Cleaning drains
 - C) Making glass
 - D) Making soap
- Answer: D) Making soap

275. Which of the following is a common use of ammonia in the chemical industry?

- A) Making fertilizers
 - B) Cleaning drains
 - C) Making glass
 - D) Whitening teeth
- Answer: A) Making fertilizers

276. Which of the following is the chemical formula for slaked lime?

- A) $Ca(OH)_2$
 - B) NaOH
 - C) CaO
 - D) $Mg(OH)_2$
- Answer: A) $Ca(OH)_2$

277. Which of the following is a common use of baking soda (sodium bicarbonate) in the food industry?

- A) Making cheese
- B) Cleaning drains
- C) Making fertilizers

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D) Whitening teeth

Answer: A) Making cheese

278. Which of the following is a common use of hydrochloric acid in the mining industry?

A) Making fertilizers

B) Cleaning drains

C) Extracting metals from ores

D) Whitening teeth

Answer: C) Extracting metals from ores

279. Which of the following is the chemical formula for hydrochloric acid?

A) NaOH

B) NaCl

C) HCl

D) H₂SO₄

Answer: C) HCl

280. Which of the following is a common use of calcium hydroxide in the construction industry?

A) Making cheese

B) Cleaning drains

C) Neutralizing acids in soil

D) Making soap

Answer: C) Neutralizing acids in soil

281. Which of the following is the chemical formula for sulfuric acid?

A) NaOH

B) NaCl

C) HCl

D) H₂SO₄

Answer: D) H₂SO₄

282. Which of the following is a common use of sodium carbonate in the chemical industry?

A) Making fertilizers

B) Cleaning drains

C) Making glass

D) Whitening teeth

Answer: C) Making glass

283. Which of the following is the chemical formula for washing soda?

A) NaOH

B) NaCl

C) Na₂CO₃

D) NaHCO₃

Answer: C) Na₂CO₃

284. Which of the following is a characteristic of a salt?

A) Sour taste

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- B) Bitter taste
C) Sweet taste
D) No taste
Answer: D) No taste

285. Which of the following is the chemical formula for common salt?

- A) NaCl
B) CaCO₃
C) H₂SO₄
D) MgCl₂
Answer: A) NaCl

286. Which of the following is a common use of calcium carbonate in the chemical industry?

- A) Making fertilizers
B) Cleaning drains
C) Making glass
D) Making cement
Answer: D) Making cement

287. Which of the following is a common use of hydrochloric acid in the chemical industry?

- A) Making fertilizers
B) Cleaning drains
C) Making glass
D) Making soap
Answer: B) Cleaning drains

288. Which of the following is the chemical formula for table vinegar?

- A) CH₃COOH
B) NaOH
C) HCl
D) H₂SO₄
Answer: A) CH₃COOH

289. Which of the following is a characteristic of an acidic solution?

- A) High concentration of OH⁻ ions
B) Low concentration of H⁺ ions
C) pH of 7
D) High concentration of H⁺ ions
Answer: D) High concentration of H⁺ ions

290. Which of the following is the chemical formula for baking powder?

- A) NaOH
B) NaCl
C) Na₂CO₃
D) NaHCO₃
Answer: D) NaHCO₃

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291. Which of the following is a common use of magnesium hydroxide in the pharmaceutical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Neutralizing stomach acid
- D) Making soap

Answer: C) Neutralizing stomach acid

292. Which of the following is a common use of ammonium chloride in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making batteries

Answer: A) Making fertilizers

293. Which of the following is the chemical formula for bleaching powder?

- A) NaCl
- B) CaCO_3
- C) Ca(OH)_2
- D) CaOCl_2

Answer: D) CaOCl_2

294. Which of the following is a characteristic of a base?

- A) Sour taste
- B) Bitter taste
- C) Sweet taste
- D) No taste

Answer: B) Bitter taste

295. Which of the following is the chemical formula for quicklime?

- A) NaCl
- B) CaCO_3
- C) Ca(OH)_2
- D) CaO

Answer: D) CaO

296. Which of the following is a common use of sulfuric acid in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making soap

Answer: A) Making fertilizers

297. Which of the following is a common use of sodium hydroxide in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making batteries

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Answer: C) Making glass

298. Which of the following is the chemical formula for baking soda?

- A) NaOH
- B) NaCl
- C) Na_2CO_3
- D) NaHCO_3

Answer: D) NaHCO_3

299. Which of the following is a characteristic of a neutral solution?

- A) High concentration of OH^- ions
- B) Low concentration of H^+ ions
- C) pH of 7
- D) High concentration of H^+ ions

Answer: C) pH of 7

300. Which of the following is the chemical formula for gypsum?

- A) Na_2CO_3
- B) CaCO_3
- C) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- D) $\text{Ca}(\text{OH})_2$

Answer: C) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

301. Which of the following is a common use of aluminum hydroxide in the pharmaceutical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Neutralizing stomach acid
- D) Making soap

Answer: C) Neutralizing stomach acid

302. Which of the following is a common use of caustic soda in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making batteries

Answer: B) Cleaning drains

303. Which of the following is the chemical formula for common salt?

- A) NaCl
- B) CaCO_3
- C) $\text{Ca}(\text{OH})_2$
- D) CaSO_4

Answer: A) NaCl

304. Which of the following is a characteristic of an acidic solution?

- A) High concentration of OH^- ions
- B) Low concentration of H^+ ions

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C) pH of 7

D) High concentration of H^+ ions

Answer: D) High concentration of H^+ ions

305. Which of the following is the chemical formula for washing soda?

A) NaOH

B) NaCl

C) Na_2CO_3

D) $NaHCO_3$

Answer: C) Na_2CO_3

306. Which of the following is a common use of hydrochloric acid in the chemical industry?

A) Making fertilizers

B) Cleaning drains

C) Making glass

D) Making soap

Answer: B) Cleaning drains

307. Which of the following is a common use of calcium carbonate in the chemical industry?

A) Making fertilizers

B) Cleaning drains

C) Making glass

D) Making cement

Answer: D) Making cement

308. Which of the following is the chemical formula for plaster of Paris?

A) Na_2CO_3

B) $CaCO_3$

C) $CaSO_4 \cdot 2H_2O$

D) $Ca(OH)_2$

Answer: C) $CaSO_4 \cdot 2H_2O$

309. Which of the following is a characteristic of a basic solution?

A) Sour taste

B) Bitter taste

C) Sweet taste

D) No taste

Answer: B) Bitter taste

310. Which of the following is the chemical formula for baking powder?

A) NaOH

B) NaCl

C) Na_2CO_3

D) $NaHCO_3$ + tartaric acid

Answer: D) $NaHCO_3$ + tartaric acid

311. Which of the following is a common use of magnesium hydroxide in the pharmaceutical industry?

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- A) Making antacids
- B) Making fertilizers
- C) Cleaning drains
- D) Making soap

Answer: A) Making antacids

312. Which of the following is a characteristic of a salt solution?

- A) Sour taste
- B) Bitter taste
- C) Sweet taste
- D) No taste

Answer: D) No taste

313. Which of the following is a common use of ammonium chloride in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making batteries

Answer: A) Making fertilizers

314. Which of the following is a characteristic of a neutral solution?

- A) pH less than 7
- B) pH greater than 7
- C) pH equal to 7
- D) pH equal to 0

Answer: C) pH equal to 7

315. Which of the following is the chemical formula for common baking soda?

- A) NaOH
- B) NaCl
- C) Na₂CO₃
- D) NaHCO₃

Answer: D) NaHCO₃

316. Which of the following is a common use of sulfuric acid in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making soap

Answer: A) Making fertilizers

317. Which of the following is a common use of sodium hydroxide in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making batteries

Answer: C) Making glass

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318. Which of the following is the chemical formula for quicklime?

- A) CaCO_3
- B) Ca(OH)_2
- C) CaSO_4
- D) CaO

Answer: D) CaO

319. Which of the following is a characteristic of an alkaline solution?

- A) High concentration of OH^- ions
- B) Low concentration of H^+ ions
- C) pH of 7
- D) High concentration of H^+ ions

Answer: A) High concentration of OH^- ions

320. Which of the following is the chemical formula for bleaching powder?

- A) NaOH
- B) NaCl
- C) CaOCl_2
- D) CaCO_3

Answer: C) CaOCl_2

321. Which of the following is a common use of potassium hydroxide in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making soap

Answer: D) Making soap

322. Which of the following is a characteristic of an acidic solution?

- A) High concentration of OH^- ions
- B) Low concentration of H^+ ions
- C) pH of 7
- D) High concentration of H^+ ions

Answer: D) High concentration of H^+ ions

323. Which of the following is the chemical formula for common table salt?

- A) NaOH
- B) NaCl
- C) Na_2CO_3
- D) NaHCO_3

Answer: B) NaCl

324. Which of the following is a characteristic of a basic solution?

- A) Low concentration of OH^- ions
- B) High concentration of H^+ ions
- C) pH less than 7
- D) High concentration of OH^- ions

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Answer: D) High concentration of OH⁻ ions

325. Which of the following is the chemical formula for washing soda?

- A) NaOH
- B) NaCl
- C) Na₂CO₃
- D) NaHCO₃

Answer: C) Na₂CO₃

326. Which of the following is a common use of hydrochloric acid in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making batteries

Answer: B) Cleaning drains

327. Which of the following is a common use of calcium carbonate in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making cement

Answer: D) Making cement

328. Which of the following is the chemical formula for common lime?

- A) CaCO₃
- B) Ca(OH)₂
- C) CaSO₄
- D) CaO

Answer: B) Ca(OH)₂

329. Which of the following is a characteristic of a salt?

- A) Conducts electricity in the solid state
- B) Melts at a high temperature
- C) Has a low solubility in water
- D) Dissolves in non-polar solvents

Answer: A) Conducts electricity in the solid state

330. Which of the following is a common use of sodium bicarbonate in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains
- C) Making glass
- D) Making baking powder

Answer: D) Making baking powder

331. Which of the following is the chemical formula for common plaster of Paris?

- A) CaSO₄
- B) CaCO₃
- C) Ca(OH)₂

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D) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

Answer: D) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

332. Which of the following is a characteristic of metals?

- A) Low melting point
- B) Poor conductors of electricity
- C) Malleable and ductile
- D) Low density

Answer: C) Malleable and ductile

336. Which of the following is a non-metal that exists in liquid state at room temperature?

- A) Oxygen
- B) Bromine
- C) Helium
- D) Carbon

Answer: B) Bromine

337. Which of the following metals does not react with water or steam?

- A) Magnesium
- B) Sodium
- C) Calcium
- D) Iron

Answer: A) Magnesium

338. Which of the following non-metals is used in the manufacture of fertilizers?

- A) Oxygen
- B) Nitrogen
- C) Carbon
- D) Sulphur

Answer: B) Nitrogen

339. Which of the following metals is used in thermometers?

- A) Mercury
- B) Copper
- C) Zinc
- D) Iron

Answer: A) Mercury

340. Which of the following is a common alloy of copper?

- A) Brass
- B) Bronze
- C) Stainless steel
- D) Aluminium alloy

Answer: A) Brass

341. Which of the following is a common use of aluminium in the construction industry?

- A) Making electrical wires
- B) Making cutlery

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- C) Making coins
- D) Making window frames

Answer: D) Making window frames

342. Which of the following non-metals is used in the production of matches?

- A) Oxygen
- B) Nitrogen
- C) Carbon
- D) Sulphur

Answer: D) Sulphur

343. Which of the following metals is the best conductor of electricity?

- A) Copper
- B) Silver
- C) Aluminium
- D) Zinc

Answer: B) Silver

344. Which of the following non-metals is a major constituent of the earth's atmosphere?

- A) Oxygen
- B) Nitrogen
- C) Carbon
- D) Sulphur

Answer: B) Nitrogen

345. Which of the following non-metals is used as a bleaching agent?

- A) Oxygen
- B) Chlorine
- C) Hydrogen
- D) Carbon

Answer: B) Chlorine

346. Which of the following is a metalloid?

- A) Calcium
- B) Iron
- C) Silicon
- D) Sodium

Answer: C) Silicon

347. Which of the following metals is used in the manufacture of stainless steel?

- A) Copper
- B) Zinc
- C) Nickel
- D) Lead

Answer: C) Nickel

348. Which of the following non-metals is a good conductor of electricity?

- A) Oxygen

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- B) Nitrogen
C) Carbon
D) Graphite
Answer: D) Graphite

349. Which of the following metals is a liquid at room temperature?

- A) Sodium
B) Mercury
C) Copper
D) Zinc

Answer: B) Mercury

350. Which of the following non-metals is used in the production of fertilizers?

- A) Oxygen
B) Nitrogen
C) Carbon
D) Sulphur

Answer: B) Nitrogen

351. Which of the following metals is used in the manufacture of aircraft parts?

- A) Aluminium
B) Gold
C) Silver
D) Platinum

Answer: A) Aluminium

352. Which of the following non-metals is used in the production of plastics?

- A) Oxygen
B) Nitrogen
C) Carbon
D) Sulphur

Answer: C) Carbon

353. Which of the following metals is used in the production of electrical wires?

- A) Copper
B) Zinc
C) Iron
D) Aluminium

Answer: A) Copper

354. Which of the following non-metals is used in the production of glass?

- A) Oxygen
B) Nitrogen
C) Carbon
D) Silicon

Answer: D) Silicon

355. Which of the following non-metals is a liquid at room temperature?

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- A) Oxygen
- B) Chlorine
- C) Bromine
- D) Sulphur

Answer: C) Bromine

356. Which of the following metals is used in the production of batteries?

- A) Zinc
- B) Copper
- C) Gold
- D) Iron

Answer: A) Zinc

357. Which of the following non-metals is used in the production of medicines?

- A) Oxygen
- B) Nitrogen
- C) Carbon
- D) Hydrogen

Answer: C) Carbon

358. Which of the following metals is the most abundant in the Earth's crust?

- A) Iron
- B) Aluminium
- C) Copper
- D) Gold

Answer: B) Aluminium

359. Which of the following non-metals is used as a fire-extinguishing agent?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen
- D) Sulphur dioxide

Answer: B) Carbon dioxide

360. Which of the following metals is used in the manufacture of coins?

- A) Iron
- B) Aluminium
- C) Copper
- D) Zinc

Answer: C) Copper

361. Which of the following non-metals is used in the production of fertilizers?

- A) Oxygen
- B) Nitrogen
- C) Carbon
- D) Sulphur

Answer: B) Nitrogen

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362. Which of the following metals is the best conductor of electricity?

- A) Aluminium
- B) Copper
- C) Gold
- D) Silver

Answer: D) Silver

363. Which of the following non-metals is used in the production of matches?

- A) Oxygen
- B) Carbon
- C) Sulphur
- D) Nitrogen

Answer: C) Sulphur

364. Which of the following metals is used in the production of electrical contacts?

- A) Aluminium
- B) Copper
- C) Silver
- D) Zinc

Answer: C) Silver

365. Which of the following non-metals is present in all acids?

- A) Carbon
- B) Nitrogen
- C) Oxygen
- D) Sulphur

Answer: C) Oxygen

366. Which of the following metals is used in the making of aircraft bodies?

- A) Aluminium
- B) Iron
- C) Copper
- D) Silver

Answer: A) Aluminium

367. Which of the following non-metals is present in the atmosphere in the largest amount?

- A) Oxygen
- B) Nitrogen
- C) Carbon dioxide
- D) Chlorine

Answer: B) Nitrogen

368. Which of the following metals is the most reactive?

- A) Iron
- B) Copper
- C) Gold
- D) Sodium

Answer: D) Sodium

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369. Which of the following non-metals is used in the production of fertilizers?

- A) Carbon
- B) Oxygen
- C) Nitrogen
- D) Sulphur

Answer: C) Nitrogen

370. Which of the following metals is the hardest known metal?

- A) Iron
- B) Gold
- C) Platinum
- D) Tungsten

Answer: D) Tungsten

371. Which of the following non-metals is a noble gas?

- A) Nitrogen
- B) Carbon
- C) Helium
- D) Chlorine

Answer: C) Helium

372. Which of the following metals is the most malleable?

- A) Iron
- B) Copper
- C) Gold
- D) Aluminium

Answer: C) Gold

376. Which of the following non-metals is used in the production of glass?

- A) Carbon
- B) Oxygen
- C) Nitrogen
- D) Silicon

Answer: D) Silicon

377. Which of the following metals is a liquid at room temperature?

- A) Mercury
- B) Zinc
- C) Silver
- D) Iron

Answer: A) Mercury

378. Which of the following non-metals is used in the production of matches?

- A) Carbon
- B) Nitrogen
- C) Sulphur
- D) Oxygen

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Answer: C) Sulphur

379. Which of the following metals is used in the making of electric wires?

- A) Silver
- B) Copper
- C) Aluminium
- D) Zinc

Answer: B) Copper

380. Which of the following non-metals is responsible for the greenhouse effect?

- A) Oxygen
- B) Nitrogen
- C) Carbon dioxide
- D) Sulphur dioxide

Answer: C) Carbon dioxide

381. Which of the following metals is not found in nature in a free state?

- A) Gold
- B) Silver
- C) Aluminium
- D) Iron

Answer: C) Aluminium

382. Which of the following non-metals is used in the production of soap?

- A) Carbon
- B) Oxygen
- C) Nitrogen
- D) Sulphur

Answer: A) Carbon

383. Which of the following metals is used in the production of coins in India?

- A) Iron
- B) Copper
- C) Silver
- D) Gold

Answer: B) Copper

384. Which of the following non-metals is used in the production of fertilizers and explosives?

- A) Oxygen
- B) Nitrogen
- C) Chlorine
- D) Sulphur

Answer: D) Sulphur

385. Which of the following metals is the lightest known metal?

- A) Aluminium
- B) Copper
- C) Iron

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D) Magnesium

Answer: A) Aluminium

386. Which of the following non-metals is used in the production of rubber?

A) Oxygen

B) Nitrogen

C) Carbon

D) Sulphur

Answer: D) Sulphur

387. Which of the following metals is used in the production of thermometers?

A) Copper

B) Zinc

C) Iron

D) Mercury

Answer: D) Mercury

388. Which of the following metals is used in the making of mirrors?

A) Silver

B) Copper

C) Aluminium

D) Iron

Answer: A) Silver

389. Which of the following non-metals is used in the production of fertilizers?

A) Oxygen

B) Nitrogen

C) Chlorine

D) Carbon dioxide

Answer: B) Nitrogen

390. Which of the following metals is used in the making of aircraft parts?

A) Iron

B) Aluminium

C) Copper

D) Gold

Answer: B) Aluminium

391. Which of the following non-metals is used in the production of fire extinguishers?

A) Oxygen

B) Carbon dioxide

C) Nitrogen

D) Sulphur

Answer: B) Carbon dioxide

392. Which of the following metals is a good conductor of electricity and is also used in the construction of power lines?

A) Silver

B) Copper

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- C) Aluminium
- D) Iron

Answer: C) Aluminium

393. Which of the following non-metals is used in the production of plastics?

- A) Oxygen
- B) Nitrogen
- C) Carbon
- D) Sulphur

Answer: C) Carbon

394. Which of the following metals is used in the production of batteries?

- A) Zinc
- B) Copper
- C) Iron
- D) Silver

Answer: A) Zinc

395. Which of the following non-metals is used in the production of disinfectants and bleaching agents?

- A) Nitrogen
- B) Carbon
- C) Chlorine
- D) Sulphur

Answer: C) Chlorine

396. Which of the following metals is used in the making of cooking utensils?

- A) Gold
- B) Iron
- C) Copper
- D) Zinc

Answer: C) Copper

397. Which of the following non-metals is used in the production of dry ice?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen
- D) Sulphur dioxide

Answer: B) Carbon dioxide

398. Which of the following metals is used in the making of coins?

- A) Iron
- B) Copper
- C) Aluminium
- D) Gold

Answer: D) Gold

399. Which of the following non-metals is used in the production of fertilizers?

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- A) Oxygen
 - B) Nitrogen
 - C) Chlorine
 - D) Carbon dioxide
- Answer: B) Nitrogen

400. Which of the following metals is a poor conductor of electricity and is used in the production of galvanized iron?

- A) Zinc
 - B) Copper
 - C) Aluminium
 - D) Iron
- Answer: A) Zinc

401. Which of the following non-metals is used in the production of matches?

- A) Oxygen
 - B) Nitrogen
 - C) Phosphorus
 - D) Carbon
- Answer: C) Phosphorus

402. Which of the following metals is used in the production of car batteries?

- A) Iron
 - B) Copper
 - C) Lead
 - D) Silver
- Answer: C) Lead

403. Which of the following non-metals is used in the production of gunpowder?

- A) Oxygen
 - B) Nitrogen
 - C) Sulphur
 - D) Carbon
- Answer: C) Sulphur

403. Which of the following metals is used in the making of thermometers?

- A) Copper
 - B) Aluminium
 - C) Mercury
 - D) Iron
- Answer: C) Mercury

404. Which of the following non-metals is used in the production of toothpaste?

- A) Oxygen
 - B) Nitrogen
 - C) Fluorine
 - D) Carbon
- Answer: C) Fluorine

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405. Which of the following metals is used in the making of electrical wires?

- A) Gold
- B) Copper
- C) Zinc
- D) Iron

Answer: B) Copper

406. Which of the following non-metals is used in the production of fertilizers?

- A) Oxygen
- B) Nitrogen
- C) Chlorine
- D) Sulphur

Answer: D) Sulphur

407. Which of the following metals is a liquid at room temperature?

- A) Mercury
- B) Copper
- C) Iron
- D) Silver

Answer: A) Mercury

408. Which of the following non-metals is used in the production of plastic?

- A) Carbon
- B) Nitrogen
- C) Oxygen
- D) Sulphur

Answer: A) Carbon

409. Which of the following metals is the most reactive?

- A) Copper
- B) Silver
- C) Gold
- D) Potassium

Answer: D) Potassium

410. Which of the following non-metals is used in the production of disinfectants?

- A) Chlorine
- B) Nitrogen
- C) Carbon
- D) Oxygen

Answer: A) Chlorine

413. Which of the following metals is used in the making of stainless steel?

- A) Iron
- B) Copper
- C) Aluminium
- D) Chromium

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Answer: D) Chromium

414. Which of the following non-metals is used in the production of photographic films?

- A) Oxygen
- B) Nitrogen
- C) Sulphur
- D) Carbon

Answer: D) Carbon

415. Which of the following metals is used in the production of ornaments?

- A) Iron
- B) Aluminium
- C) Silver
- D) Zinc

Answer: C) Silver

416. Which of the following non-metals is used in the production of soap?

- A) Oxygen
- B) Nitrogen
- C) Sulphur
- D) Carbon

Answer: C) Sulphur

417. Which of the following metals is used in the making of airplane parts?

- A) Copper
- B) Aluminium
- C) Gold
- D) Silver

Answer: B) Aluminium

418. Which of the following non-metals is used in the production of glass?

- A) Carbon
- B) Nitrogen
- C) Oxygen
- D) Silicon

Answer: D) Silicon

419. Which of the following is not an allotrope of carbon?

- A) Graphite
- B) Diamond
- C) Charcoal
- D) Aluminium

Answer: D) Aluminium

420. Which of the following forms of carbon is used as a lubricant?

- A) Graphite
- B) Diamond
- C) Coal

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D) Charcoal

Answer: A) Graphite

421. Which of the following is a naturally occurring form of carbon?

A) Activated carbon

B) Fullerene

C) Graphene

D) Diamond

Answer: D) Diamond

422. Which of the following is an amorphous form of carbon?

A) Graphite

B) Diamond

C) Charcoal

D) Fullerene

Answer: C) Charcoal

423. Which of the following forms of carbon is used as a filter in water purifiers?

A) Graphite

B) Activated carbon

C) Diamond

D) Charcoal

Answer: B) Activated carbon

424. Which of the following allotropes of carbon has a three-dimensional structure?

A) Graphite

B) Diamond

C) Fullerene

D) Charcoal

Answer: C) Fullerene

425. Which of the following forms of carbon is used as an electrode in dry cell batteries?

A) Charcoal

B) Graphite

C) Diamond

D) Fullerenes

Answer: B) Graphite

426. Which of the following allotropes of carbon is the hardest naturally occurring substance?

A) Graphite

B) Charcoal

C) Diamond

D) Fullerene

Answer: C) Diamond

427. Which of the following forms of carbon is used as a pigment in black ink?

A) Charcoal

B) Diamond

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- C) Graphite
- D) Fullerene

Answer: A) Charcoal

428. Which of the following forms of carbon is used in the production of steel?

- A) Diamond
- B) Charcoal
- C) Graphite
- D) Fullerene

Answer: C) Graphite

429. What is the process of conversion of coal to coke known as?

- A) Combustion
- B) Carbonation
- C) Calcination
- D) Carbonisation

Answer: D) Carbonisation

430. Which of the following gases is produced during the incomplete combustion of carbon?

- A) Carbon monoxide
- B) Carbon dioxide
- C) Nitrogen
- D) Oxygen

Answer: A) Carbon monoxide

431. Which of the following is the main constituent of natural gas?

- A) Methane
- B) Carbon dioxide
- C) Carbon monoxide
- D) Nitrogen

Answer: A) Methane

432. Which of the following is a greenhouse gas?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen
- D) Helium

Answer: B) Carbon dioxide

433. Which of the following is used as a reducing agent in the extraction of metals from their oxides?

- A) Charcoal
- B) Graphite
- C) Diamond
- D) Fullerene

Answer: A) Charcoal

434. Which of the following is used as a fuel in gas stoves and ovens?

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- A) Activated carbon
- B) Carbon black
- C) Natural gas
- D) Diamond

Answer: C) Natural gas

435. Which of the following is used as a fuel in fuel cells?

- A) Coal
- B) Methane
- C) Charcoal
- D) Graphite

Answer: B) Methane

436. Which of the following allotropes of carbon has a honeycomb-like structure?

- A) Graphene
- B) Diamond
- C) Charcoal
- D) Fullerene

Answer: A) Graphene

437. Which of the following forms of carbon is used in the manufacturing of inkjet printer ink?

- A) Activated carbon
- B) Carbon black
- C) Graphene
- D) Fullerene

Answer: B) Carbon black

438. Which of the following allotropes of carbon is used in the construction of tennis racquets and bicycle frames?

- A) Graphite
- B) Charcoal
- C) Diamond
- D) Fullerene

Answer: A) Graphite

439. What is the process of conversion of wood into charcoal known as?

- A) Carbonisation
- B) Decarboxylation
- C) Calcination
- D) Fermentation

Answer: A) Carbonisation

440. Which of the following is the purest form of carbon?

- A) Graphite
- B) Diamond
- C) Fullerene
- D) Charcoal

Answer: B) Diamond

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441. Which of the following is an allotrope of carbon?

- A) Carbonic acid
- B) Carbon monoxide
- C) Carbon dioxide
- D) Graphene

Answer: D) Graphene

442. Which of the following compounds is commonly used in the bleaching of textiles and paper?

- A) Carbon monoxide
- B) Carbon dioxide
- C) Carbon tetrachloride
- D) Carbon disulphide

Answer: C) Carbon tetrachloride

443. Which of the following is an example of a hydrocarbon?

- A) Carbon monoxide
- B) Carbon dioxide
- C) Methane
- D) Carbonic acid

Answer: C) Methane

444. Which of the following is an example of a polymer of carbon?

- A) Diamond
- B) Graphite
- C) Fullerene
- D) Plastic

Answer: D) Plastic

445. Which of the following is used as a pigment in black ink?

- A) Charcoal
- B) Graphite
- C) Carbon black
- D) Activated carbon

Answer: C) Carbon black

446. Which of the following is used as a fuel in rocket engines?

- A) Charcoal
- B) Graphite
- C) Carbon black
- D) Carbon nanotubes

Answer: B) Graphite

447. Which of the following is used as a catalyst in the synthesis of ammonia?

- A) Charcoal
- B) Graphite
- C) Iron

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D) Activated carbon

Answer: C) Iron

448. Which of the following allotropes of carbon is used as a lubricant?

A) Graphene

B) Diamond

C) Charcoal

D) Fullerene

Answer: B) Diamond

449. What is the process of burning carbon in the absence of air to produce charcoal known as?

A) Combustion

B) Reduction

C) Carbonisation

D) Oxidation

Answer: C) Carbonisation

450. Which of the following is an example of an organic compound?

A) Carbon monoxide

B) Carbon dioxide

C) Methane

D) Graphite

Answer: C) Methane

451. Which of the following allotropes of carbon is a good conductor of electricity?

A) Diamond

B) Graphite

C) Fullerene

D) Charcoal

Answer: B) Graphite

452. Which of the following compounds is commonly used as a fire extinguisher?

A) Carbon monoxide

B) Carbon dioxide

C) Carbon tetrachloride

D) Carbon disulphide

Answer: B) Carbon dioxide

453. Which of the following is a type of carbon-based molecule that has a unique cage-like structure?

A) Carbon nanotubes

B) Fullerene

C) Graphene

D) Activated carbon

Answer: B) Fullerene

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454. Which of the following is used as a reducing agent in the extraction of metals from their ores?

- A) Carbon dioxide
- B) Carbon monoxide
- C) Carbon tetrachloride
- D) Carbon disulphide

Answer: B) Carbon monoxide

455. Which of the following is an example of a fossil fuel that contains carbon?

- A) Natural gas
- B) Uranium
- C) Wind
- D) Solar energy

Answer: A) Natural gas

456. Which of the following is a process by which plants convert carbon dioxide into organic compounds using sunlight?

- A) Photosynthesis
- B) Respiration
- C) Fermentation
- D) Combustion

Answer: A) Photosynthesis

457. Which of the following is a type of carbon-based molecule that has a long, tube-like structure?

- A) Carbon nanotubes
- B) Fullerene
- C) Graphene
- D) Activated carbon

Answer: A) Carbon nanotubes

458. Which of the following is a type of carbon-based molecule that is used in water filtration systems to remove impurities?

- A) Carbon nanotubes
- B) Fullerene
- C) Graphene
- D) Activated carbon

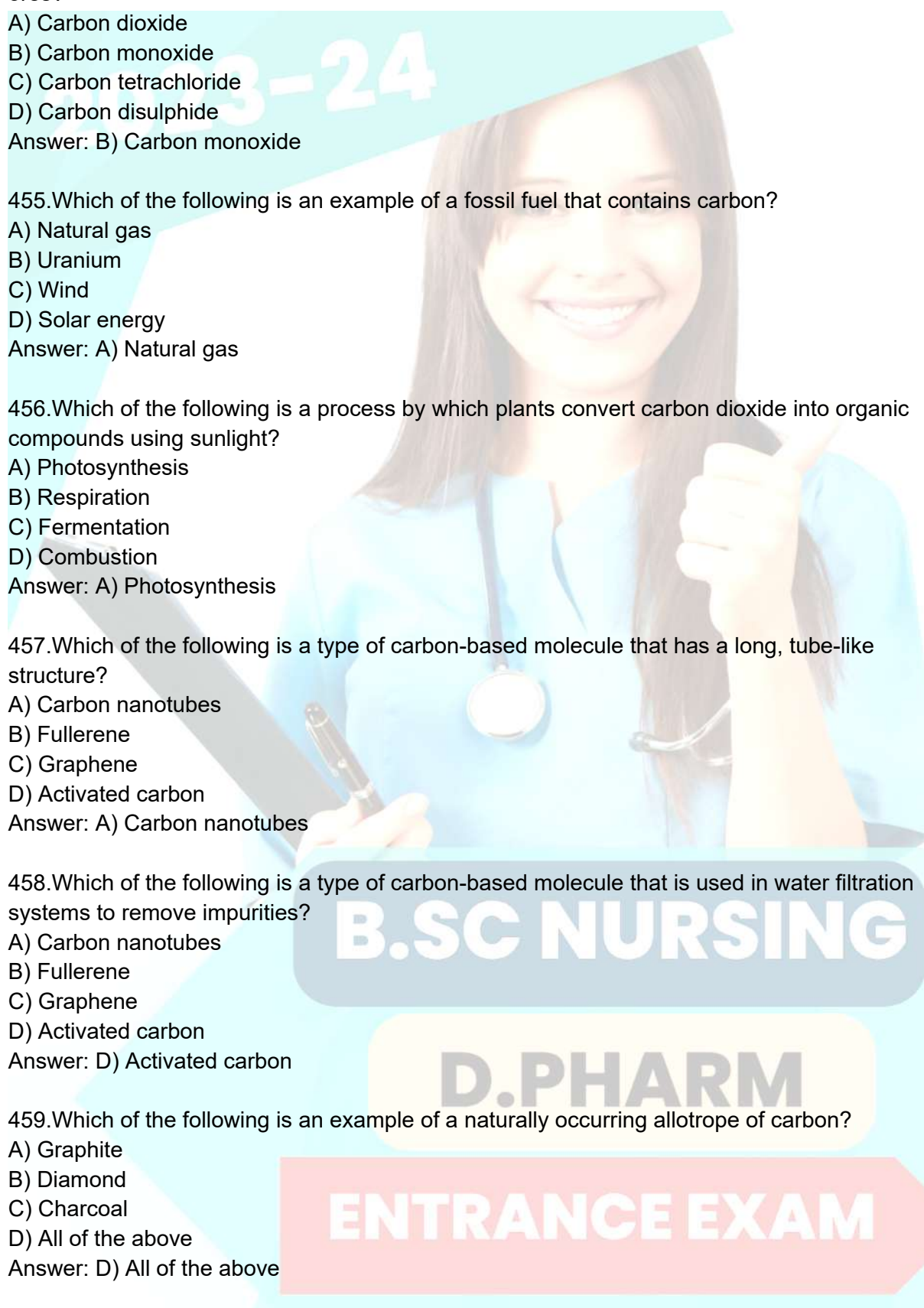
Answer: D) Activated carbon

459. Which of the following is an example of a naturally occurring allotrope of carbon?

- A) Graphite
- B) Diamond
- C) Charcoal
- D) All of the above

Answer: D) All of the above

460. Which of the following is a type of carbon-based molecule that is used in electronics and computer technology due to its high strength and conductivity?



- A) Carbon nanotubes
- B) Fullerene
- C) Graphene
- D) Activated carbon

Answer: C) Graphene

461. Which of the following is a process by which carbon dioxide is removed from the atmosphere and stored underground?

- A) Carbon capture and storage
- B) Carbonisation
- C) Carbon dating
- D) Carbon footprinting

Answer: A) Carbon capture and storage

462. Which of the following is a type of carbon-based molecule that is used in medicine and drug delivery due to its unique structure and properties?

- A) Carbon nanotubes
- B) Fullerene
- C) Graphene
- D) Activated carbon

Answer: B) Fullerene

462. Which of the following is an example of a polymer that is made up of carbon-based monomers?

- A) DNA
- B) Protein
- C) Starch
- D) All of the above

Answer: D) All of the above

463. Which of the following is a process by which organic compounds are broken down by microorganisms into simpler substances?

- A) Combustion
- B) Reduction
- C) Fermentation
- D) Oxidation

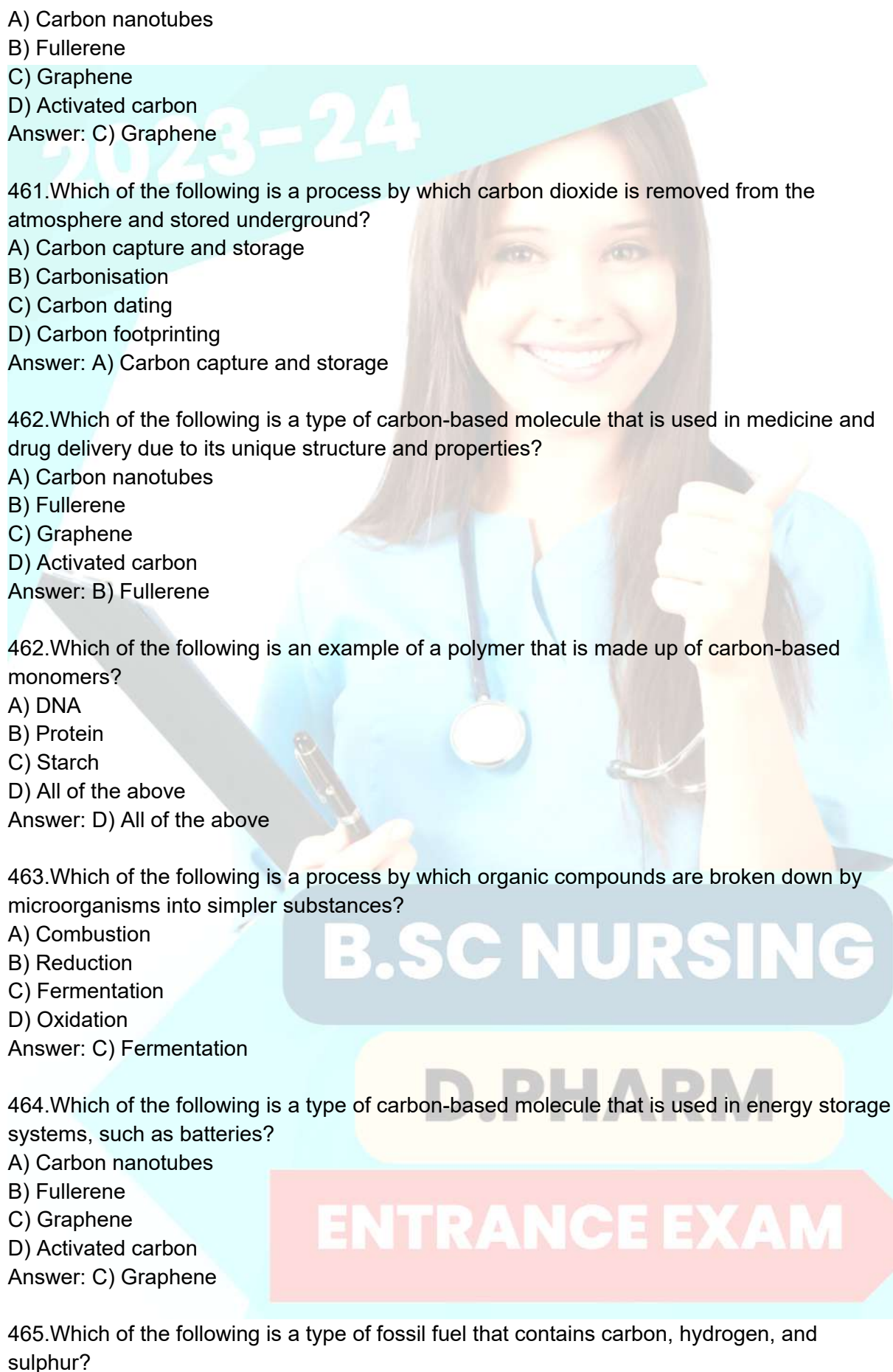
Answer: C) Fermentation

464. Which of the following is a type of carbon-based molecule that is used in energy storage systems, such as batteries?

- A) Carbon nanotubes
- B) Fullerene
- C) Graphene
- D) Activated carbon

Answer: C) Graphene

465. Which of the following is a type of fossil fuel that contains carbon, hydrogen, and sulphur?



- A) Coal
- B) Natural gas
- C) Petroleum
- D) All of the above

Answer: A) Coal

466. Which of the following is a process by which carbon is dated to determine the age of fossils and archaeological artifacts?

- A) Carbon capture and storage
- B) Carbonisation
- C) Carbon dating
- D) Carbon footprinting

Answer: C) Carbon dating

467. Which of the following is a type of carbon-based molecule that is used in water-resistant coatings and inks?

- A) Carbon nanotubes
- B) Fullerene
- C) Graphene
- D) Carbon black

Answer: D) Carbon black

468. Which of the following is a hydrocarbon with the chemical formula C_2H_6 ?

- A) Ethane
- B) Methane
- C) Propane
- D) Butane

Answer: A) Ethane

469. Which of the following is an alcohol with the chemical formula C_2H_5OH ?

- A) Ethanol
- B) Methanol
- C) Propanol
- D) Butanol

Answer: A) Ethanol

470. Which of the following is an organic acid with the chemical formula CH_3COOH ?

- A) Formic acid
- B) Acetic acid
- C) Butyric acid
- D) Citric acid

Answer: B) Acetic acid

471. Which of the following is an organic compound that contains a carbonyl group ($C=O$) and is used in the manufacture of plastics and resins?

- A) Aldehyde
- B) Ketone
- C) Carboxylic acid

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D) Ester

Answer: B) Ketone

472. Which of the following is an organic compound that contains a nitrogen atom and is found in amino acids and proteins?

- A) Amide
- B) Amine
- C) Nitrile
- D) Nitro compound

Answer: B) Amine

473. Which of the following is an organic compound that contains a carbon atom bonded to three hydrogen atoms and a nitrogen atom?

- A) Amide
- B) Amine
- C) Nitrile
- D) Nitro compound

Answer: B) Amine

473. Which of the following is a class of organic compounds that contain a hydroxyl (-OH) group?

- A) Alcohols
- B) Aldehydes
- C) Ketones
- D) Carboxylic acids

Answer: A) Alcohols

474. Which of the following is an organic compound that contains a carbon atom double-bonded to an oxygen atom ($C=O$) and is found in sugars and carbohydrates?

- A) Aldehyde
- B) Ketone
- C) Carboxylic acid
- D) Ester

Answer: B) Ketone

475. Which of the following is an organic compound that contains a carbon atom double-bonded to an oxygen atom and also a hydroxyl group (-OH) attached to a neighboring carbon atom?

- A) Aldehyde
- B) Ketone
- C) Carboxylic acid
- D) Ester

Answer: A) Aldehyde

476. Which of the following is an organic compound that contains a carbon atom double-bonded to an oxygen atom and a hydroxyl group (-OH) attached to the same carbon atom?

- A) Aldehyde

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- B) Ketone
- C) Carboxylic acid
- D) Ester

Answer: C) Carboxylic acid

477. Which of the following is an organic compound that contains a carboxyl group (-COOH) and is found in vinegar?

- A) Formic acid
- B) Acetic acid
- C) Butyric acid
- D) Citric acid

Answer: B) Acetic acid

478. Which of the following is an organic compound that contains a carbon atom triple-bonded to a nitrogen atom and is used in the manufacture of synthetic fibers and plastics?

- A) Amide
- B) Amine
- C) Nitrile
- D) Nitro compound

Answer: C) Nitrile

479. Which of the following is an organic compound that contains a nitrogen atom double-bonded to an oxygen atom and is used as a solvent and in the production of nylon?

- A) Amide
- B) Amine
- C) Nitrile
- D) Nitro compound

Answer: A) Amide

480. Which of the following is a class of organic compounds that contain a carbonyl group (C=O) and a hydroxyl group (-OH)?

- A) Alcohols
- B) Aldehydes
- C) Ketones
- D) Carboxylic acids

Answer: D) Carboxylic acids

481. Which of the following is an organic compound that contains a carbon atom double-bonded to an oxygen atom and a hydroxyl group (-OH) attached to a neighboring carbon atom?

- A) Aldehyde
- B) Ketone
- C) Carboxylic acid
- D) Ester

Answer: A) Aldehyde

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482. Which of the following is an organic compound that contains a carbon atom double-bonded to an oxygen atom and is found in nail polish remover?

- A) Aldehyde
- B) Ketone
- C) Carboxylic acid
- D) Ester

Answer: B) Ketone

483. Which of the following is an organic compound that contains a carbon atom double-bonded to an oxygen atom and a hydroxyl group (-OH) attached to the same carbon atom?

- A) Aldehyde
- B) Ketone
- C) Carboxylic acid
- D) Ester

Answer: C) Carboxylic acid

484. Which of the following is an organic compound that contains a carbon atom bonded to two oxygen atoms and is used as a flavoring and preservative in food?

- A) Aldehyde
- B) Ketone
- C) Carboxylic acid
- D) Ester

Answer: D) Ester

485. Which of the following is an organic compound that contains a nitrogen atom and is used as a fertilizer?

- A) Amide
- B) Amine
- C) Nitrile
- D) Nitro compound

Answer: D) Nitro compound

486. Which of the following is an organic compound that contains a carbon atom double-bonded to a nitrogen atom and is used as a local anesthetic?

- A) Amide
- B) Amine
- C) Nitrile
- D) Nitro compound

Answer: A) Amide

487. Which of the following compounds is an organic acid?

- a) H_2SO_4
- b) HCl
- c) CH_3COOH
- d) NaOH

Answer: c) CH_3COOH

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488. Which of the following is a neutral compound?

- a) NaOH
- b) HCl
- c) NaCl
- d) H₂SO₄

Answer: c) NaCl

489. What is the formula of sulfuric acid?

- a) HNO₃
- b) HCl
- c) H₂SO₄
- d) H₃PO₄

Answer: c) H₂SO₄

490. Which of the following compounds is an alkane?

- a) C₂H₂
- b) C₃H₆
- c) C₄H₈
- d) C₅H₁₂

Answer: d) C₅H₁₂

491. Which of the following is a covalent compound?

- a) NaCl
- b) MgO
- c) H₂O
- d) CaCl₂

Answer: c) H₂O

492. Which of the following compounds is an ionic compound?

- a) CO₂
- b) NH₃
- c) CaCl₂
- d) CH₄

Answer: c) CaCl₂

493. What is the name of the compound with the formula CaCO₃?

- a) Calcium carbonate
- b) Carbonic acid
- c) Sodium bicarbonate
- d) Calcium oxide

Answer: a) Calcium carbonate

494. Which of the following compounds is a strong acid?

- a) HCl
- b) CH₃COOH
- c) HNO₃
- d) H₃PO₄

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Answer: c) HNO_3

495. What is the formula of carbon dioxide?

- a) CO
- b) CO_2
- c) C_2O
- d) C_2O_3

Answer: b) CO_2

496. Which of the following compounds is a salt?

- a) NaOH
- b) HCl
- c) NaCl
- d) CH_3COOH

Answer: c) NaCl

497. What is the chemical formula for table salt?

- a) NaCl
- b) HCl
- c) NaOH
- d) CaCO_3

Answer: a) NaCl

498. What is the chemical formula for water?

- a) H_2O_2
- b) H_3O^+
- c) H_2O
- d) HO^-

Answer: c) H_2O

499. Which of the following compounds is a base?

- a) NaCl
- b) HNO_3
- c) NH_3
- d) H_2SO_4

Answer: c) NH_3

500. What is the name of the compound with the formula NH_4Cl ?

- a) Sodium chloride
- b) Ammonium chloride
- c) Calcium chloride
- d) Magnesium chloride

Answer: b) Ammonium chloride

501. Which of the following compounds is a greenhouse gas?

- a) CO_2
- b) O_2
- c) N_2

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d) H_2

Answer: a) CO_2

502. What is the chemical formula for methane?

a) CH_4

b) C_2H_6

c) C_3H_8

d) C_4H_{10}

Answer: a) CH_4

503. Which of the following is an organic compound?

a) $NaCl$

b) H_2SO_4

c) CH_4

d) $CaCO_3$

Answer: c) CH_4

504. What is the chemical formula for sulfur dioxide?

a) SO_3

b) SO_2

c) S_2O_3

d) S_2O_5

Answer: b) SO_2

505. What is the name of the compound with the formula H_2SO_4 ?

a) Sulfuric acid

b) Nitric acid

c) Hydrochloric acid

d) Acetic acid

Answer: a) Sulfuric acid

506. Which of the following compounds is used as a fertilizer?

a) $NaCl$

b) NH_3

c) H_2SO_4

d) CO_2

Answer: b) NH_3

507. Which of the following compounds is used as a preservative for food?

a) Sodium chloride

b) Calcium chloride

c) Sodium benzoate

d) Potassium hydroxide

Answer: c) Sodium benzoate

508. Which of the following compounds is commonly used as a solvent in nail polish remover?

a) Acetone

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- b) Ethanol
c) Methanol
d) Propanol
Answer: a) Acetone

509. What is the chemical formula for glucose?

- a) $C_6H_{12}O_6$
b) CH_3COOH
c) NH_3
d) CO_2

Answer: a) $C_6H_{12}O_6$

510. Which of the following compounds is used in the production of plastics?

- a) Sodium chloride
b) Ethylene
c) Calcium oxide
d) Magnesium sulfate

Answer: b) Ethylene

511. What is the name of the compound with the formula CH_3COOH ?

- a) Sulfuric acid
b) Acetic acid
c) Hydrochloric acid
d) Nitric acid

Answer: b) Acetic acid

512. Which of the following compounds is a natural sweetener found in fruits and honey?

- a) Fructose
b) Sucrose
c) Glucose
d) Lactose

Answer: a) Fructose

513. What is the chemical formula for sodium bicarbonate?

- a) $NaCl$
b) Na_2CO_3
c) $NaHCO_3$
d) $NaOH$

Answer: c) $NaHCO_3$

514. Which of the following compounds is commonly used as a pain reliever and fever reducer?

- a) Aspirin
b) Acetaminophen
c) Ibuprofen
d) Naproxen

Answer: b) Acetaminophen

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515.What is the chemical formula for carbon monoxide?

- a) CO₂
- b) CO
- c) C₂H₆
- d) CH₄

Answer: b) CO

516.Which of the following compounds is used in the manufacture of soap and detergents?

- a) Sodium chloride
- b) Sodium hydroxide
- c) Sodium carbonate
- d) Sodium bicarbonate

Answer: b) Sodium hydroxide

517.Which of the following is not a life process?

- a) Respiration
- b) Digestion
- c) Transportation
- d) Evolution

Answer: d) Evolution

518.The respiratory process that takes place in plants is known as:

- a) Aerobic respiration
- b) Anaerobic respiration
- c) Photosynthesis
- d) Transpiration

Answer: c) Photosynthesis

519.Which of the following substances is not a waste product of the human body?

- a) Urea
- b) Carbon dioxide
- c) Water
- d) Glucose

Answer: d) Glucose

520.The function of the excretory system is to:

- a) Produce energy
- b) Digest food
- c) Eliminate waste products
- d) Transport oxygen

Answer: c) Eliminate waste products

521.In the human digestive system, the enzyme responsible for breaking down proteins is:

- a) Lipase

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- b) Amylase
 - c) Pepsin
 - d) Trypsin
- Answer: c) Pepsin

522. The process by which plants absorb water and nutrients from the soil is called:

- a) Transpiration
- b) Respiration
- c) Photosynthesis
- d) Absorption

Answer: d) Absorption

523. The main function of the circulatory system is to:

- a) Produce hormones
- b) Eliminate waste products
- c) Transport nutrients and oxygen
- d) Break down food

Answer: c) Transport nutrients and oxygen

524. The process by which green plants release oxygen into the atmosphere is called:

- a) Respiration
- b) Photosynthesis
- c) Fermentation
- d) Anaerobic respiration

Answer: b) Photosynthesis

525. Which of the following is not a component of blood?

- a) Plasma
- b) Red blood cells
- c) White blood cells
- d) Carbon dioxide

Answer: d) Carbon dioxide

526. The process by which plants lose water through small openings on their leaves is called:

- a) Respiration
- b) Transpiration
- c) Photosynthesis
- d) Absorption

Answer: b) Transpiration

527. The process of breakdown of glucose in the absence of oxygen is called:

- a) Aerobic respiration
- b) Anaerobic respiration
- c) Fermentation
- d) Photosynthesis

Answer: b) Anaerobic respiration

528. The enzyme responsible for the digestion of carbohydrates is:

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- a) Lipase
- b) Amylase
- c) Pepsin
- d) Trypsin

Answer: b) Amylase

529.The unit of respiration in the human body is:

- a) Alveolus
- b) Nephron
- c) Mitochondrion
- d) Neuron

Answer: c) Mitochondrion

530.The process by which excess water and salts are removed from the human body is called:

- a) Digestion
- b) Circulation
- c) Excretion
- d) Assimilation

Answer: c) Excretion

531.The waste product of photosynthesis in plants is:

- a) Carbon dioxide
- b) Oxygen
- c) Water
- d) Glucose

Answer: a) Carbon dioxide

532.Which of the following is not a component of the human excretory system?

- a) Kidney
- b) Liver
- c) Bladder
- d) Ureter

Answer: b) Liver

533.The process by which glucose is converted into glycogen in the liver and muscles is called:

- a) Glycogenesis
- b) Glycolysis
- c) Glyconeogenesis
- d) Gluconeogenesis

Answer: a) Glycogenesis

534.The process of release of energy from food in the presence of oxygen is called:

- a) Fermentation
- b) Anaerobic respiration
- c) Aerobic respiration
- d) Photosynthesis

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Answer: c) Aerobic respiration

535. The main function of the respiratory system is to:

- a) Transport oxygen to the cells
- b) Eliminate waste products from the body
- c) Produce energy
- d) Break down food

Answer: a) Transport oxygen to the cells

536. The process by which food is broken down into simpler substances in the digestive system is called:

- a) Assimilation
- b) Digestion
- c) Circulation
- d) Excretion

Answer: b) Digestion

537. The process of conversion of light energy into chemical energy in plants is called:

- a) Respiration
- b) Fermentation
- c) Photosynthesis
- d) Digestion

Answer: c) Photosynthesis

538. The digestive enzyme present in the saliva is:

- a) Trypsin
- b) Lipase
- c) Amylase
- d) Pepsin

Answer: c) Amylase

539. The part of the human digestive system where maximum absorption of nutrients occurs is:

- a) Stomach
- b) Large intestine
- c) Small intestine
- d) Mouth

Answer: c) Small intestine

540. Which of the following is not a function of the liver?

- a) Production of bile
- b) Storage of glucose
- c) Regulation of blood sugar levels
- d) Production of insulin

Answer: d) Production of insulin

541. The process of breakdown of fats into fatty acids and glycerol is called:

- a) Lipolysis

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- b) Lipogenesis
 - c) Gluconeogenesis
 - d) Glycogenolysis
- Answer: a) Lipolysis

542. The enzyme responsible for the digestion of fats is:

- a) Amylase
- b) Lipase
- c) Pepsin
- d) Trypsin

Answer: b) Lipase

543. The process of release of urine from the human body is called:

- a) Micturition
- b) Defecation
- c) Perspiration
- d) Salivation

Answer: a) Micturition

544. The respiratory pigment present in red blood cells is:

- a) Hemoglobin
- b) Chlorophyll
- c) Carotene
- d) Melanin

Answer: a) Hemoglobin

545. The process by which plants convert nitrates into nitrogen gas is called:

- a) Nitrification
- b) Denitrification
- c) Nitrogen fixation
- d) Nitrate reduction

Answer: b) Denitrification

546. The process of breakdown of proteins into amino acids is called:

- a) Proteolysis
- b) Proteogenesis
- c) Glycogenesis
- d) Glycolysis

Answer: a) Proteolysis

547. Which of the following is a non-renewable source of energy?

- a) Wind energy
- b) Solar energy
- c) Fossil fuels
- d) Geothermal energy

Answer: c) Fossil fuels

548. The process of harnessing energy from the sun is known as:

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- a) Tidal energy
 - b) Solar energy
 - c) Geothermal energy
 - d) Wind energy
- Answer: b) Solar energy

549. What is the minimum wind speed required for the functioning of a wind turbine?

- a) 10 km/h
- b) 20 km/h
- c) 30 km/h
- d) 40 km/h

Answer: c) 30 km/h

550. Which of the following is a renewable source of energy?

- a) Coal
- b) Natural gas
- c) Uranium
- d) Biomass

Answer: d) Biomass

560. The energy possessed by an object due to its position or state is known as:

- a) Kinetic energy
- b) Potential energy
- c) Thermal energy
- d) Electrical energy

Answer: b) Potential energy

561. The unit of energy is:

- a) Newton
- b) Joule
- c) Watt
- d) Kilogram

Answer: b) Joule

562. Which of the following is the cleanest source of energy?

- a) Solar energy
- b) Nuclear energy
- c) Fossil fuels
- d) Hydroelectricity

Answer: a) Solar energy

563. What is the energy released when an atomic nucleus is split called?

- a) Nuclear fusion
- b) Nuclear fission
- c) Solar energy
- d) Wind energy

Answer: b) Nuclear fission

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564. Which of the following is the largest dam in India?

- a) Bhakra Nangal Dam
- b) Hirakud Dam
- c) Sardar Sarovar Dam
- d) Tehri Dam

Answer: a) Bhakra Nangal Dam

565. The energy obtained from the movement of water is called:

- a) Tidal energy
- b) Hydroelectric energy
- c) Geothermal energy
- d) Wind energy

Answer: b) Hydroelectric energy

566. The process of converting biomass into biofuels is known as:

- a) Biomass gasification
- b) Biomass pyrolysis
- c) Biomass fermentation
- d) Biomass hydrolysis

Answer: c) Biomass fermentation

567. What is the energy stored in the nucleus of an atom called?

- a) Kinetic energy
- b) Thermal energy
- c) Potential energy
- d) Nuclear energy

Answer: d) Nuclear energy

568. Which of the following is a disadvantage of using solar energy?

- a) High initial cost
- b) Pollution
- c) Limited availability
- d) High maintenance cost

Answer: a) High initial cost

569. The energy that is stored in the bonds between atoms and molecules is called:

- a) Chemical energy
- b) Electrical energy
- c) Magnetic energy
- d) Sound energy

Answer: a) Chemical energy

570. What is the process of removing impurities from crude oil called?

- a) Refining
- b) Distillation
- c) Combustion
- d) Cracking

Answer: a) Refining

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571. Which of the following is the most abundant renewable energy source on Earth?

- a) Wind energy
- b) Solar energy
- c) Hydroelectric energy
- d) Geothermal energy

Answer: b) Solar energy

572. The energy that is produced by the movement of electrons is called:

- a) Electrical energy
- b) Thermal energy
- c) Nuclear energy
- d) Sound energy

Answer: a) Electrical energy

573. Which of the following is the cleanest burning fossil fuel?

- a) Coal
- b) Natural gas
- c) Petroleum
- d) Diesel

Answer: b) Natural gas

574. What is the process of splitting water into hydrogen and oxygen using electricity called?

- a) Electrolysis
- b) Combustion
- c) Oxidation
- d) Reduction

Answer: a) Electrolysis

575. What is the process of converting light energy into electrical energy called?

- a) Photovoltaic effect
- b) Solar thermal energy
- c) Solar cooking
- d) Solar heating

Answer: a) Photovoltaic effect

576. The energy that is produced by the movement of particles is called:

- a) Electrical energy
- b) Thermal energy
- c) Nuclear energy
- d) Sound energy

Answer: b) Thermal energy

577. What is the process of using the energy from the sun to heat water or air called?

- a) Solar thermal energy
- b) Photovoltaic effect
- c) Solar cooking
- d) Solar heating

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Answer: a) Solar thermal energy

578. Which of the following is the largest source of energy in the world?

- a) Fossil fuels
- b) Nuclear energy
- c) Hydroelectricity
- d) Solar energy

Answer: a) Fossil fuels

579. The energy that is produced by the flow of water in rivers is called:

- a) Tidal energy
- b) Hydroelectric energy
- c) Geothermal energy
- d) Wind energy

Answer: b) Hydroelectric energy

580. What is the process of using the heat from the Earth's core to generate electricity called?

- a) Solar energy
- b) Geothermal energy
- c) Nuclear energy
- d) Wind energy

Answer: b) Geothermal energy

581. Which of the following is the most commonly used fossil fuel?

- a) Coal
- b) Natural gas
- c) Petroleum
- d) Diesel

Answer: c) Petroleum

582. The energy that is produced by the movement of waves in the ocean is called:

- a) Tidal energy
- b) Wave energy
- c) Geothermal energy
- d) Wind energy

Answer: b) Wave energy

583. Which of the following is a disadvantage of using wind energy?

- a) High initial cost
- b) Pollution
- c) Limited availability
- d) Low efficiency

Answer: c) Limited availability

584. What is the process of breaking down complex organic matter into simpler molecules called?

- a) Biomass gasification

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- b) Biomass pyrolysis
 - c) Biomass combustion
 - d) Biomass digestion
- Answer: d) Biomass digestion

585. The energy that is produced by the movement of air molecules is called:

- a) Electrical energy
- b) Thermal energy
- c) Nuclear energy
- d) Wind energy

Answer: d) Wind energy

586. Which of the following is a non-renewable source of energy?

- a) Wind energy
- b) Solar energy
- c) Coal
- d) Hydro energy

Answer: c) Coal

587. What is the unit of measurement for energy?

- a) Joule
- b) Newton
- c) Watt
- d) Volt

Answer: a) Joule

588. Which is the largest dam in India?

- a) Hirakud Dam
- b) Tehri Dam
- c) Bhakra Nangal Dam
- d) Sardar Sarovar Dam

Answer: c) Bhakra Nangal Dam

589. What is the primary source of energy for the sun?

- a) Fossil fuels
- b) Nuclear energy
- c) Hydro energy
- d) Fusion reaction

Answer: d) Fusion reaction

590. Which of the following is a disadvantage of using nuclear energy?

- a) High cost of production
- b) High amount of greenhouse gas emissions
- c) Risk of accidents
- d) Limited availability

Answer: c) Risk of accidents

591. What is the function of a wind turbine?

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- a) To store energy
 - b) To convert wind energy into electrical energy
 - c) To generate heat
 - d) To produce mechanical energy
- Answer: b) To convert wind energy into electrical energy

592. Which of the following is a renewable source of energy?

- a) Natural gas
- b) Diesel
- c) Biomass
- d) Coal

Answer: c) Biomass

593. Which of the following is a disadvantage of using solar energy?

- a) High maintenance cost
- b) Limited availability
- c) High pollution
- d) Low efficiency

Answer: b) Limited availability

594. Which of the following is a fossil fuel?

- a) Wind energy
- b) Solar energy
- c) Natural gas
- d) Hydro energy

Answer: c) Natural gas

595. What is the maximum height up to which a hydroelectric power plant can be built?

- a) 100 m
- b) 200 m
- c) 300 m
- d) 400 m

Answer: b) 200 m

596. What is the minimum wind speed required to operate a wind turbine?

- a) 5 mph
- b) 10 mph
- c) 15 mph
- d) 20 mph

Answer: b) 10 mph

597. Which of the following is the cleanest burning fossil fuel?

- a) Coal
- b) Petroleum
- c) Natural gas
- d) Diesel

Answer: c) Natural gas

598. What is the largest hydroelectric power plant in the world?

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- a) Three Gorges Dam
- b) Itaipu Dam
- c) Grand Coulee Dam
- d) Hoover Dam

Answer: a) Three Gorges Dam

599. What is the process by which biomass is converted into fuel?

- a) Combustion
- b) Fermentation
- c) Gasification
- d) Photosynthesis

Answer: c) Gasification

600. What is the unit of power?

- a) Joule
- b) Newton
- c) Watt
- d) Volt

Answer: c) Watt

601. What is the process by which nuclear energy is produced?

- a) Combustion
- b) Fission
- c) Fusion
- d) Gasification

Answer: b) Fission

602. Which of the following is the most commonly used type of solar panel?

- a) Monocrystalline
- b) Polycrystalline
- c) Thin-film
- d) Concentrated solar power

Answer: b) Polycrystalline

603. Which country is the largest producer of wind energy in the world?

- a) China
- b) United States
- c) Germany
- d) India

Answer: a) China

604. What is the approximate efficiency of a modern coal-fired power plant?

- a) 20-30%
- b) 30-40%
- c) 40-50%
- d) 50-60%

Answer: c) 40-50%

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605. Which of the following is a disadvantage of using hydroelectric power?

- a) Low efficiency
- b) Limited availability
- c) High maintenance cost
- d) Negative environmental impact

Answer: d) Negative environmental impact

606. What is the minimum temperature required to produce steam in a geothermal power plant?

- a) 50°C
- b) 100°C
- c) 150°C
- d) 200°C

Answer: b) 100°C

607. What is the process by which solar energy is converted into electrical energy?

- a) Photovoltaic effect
- b) Thermoelectric effect
- c) Electromagnetic induction
- d) Electrolysis

Answer: a) Photovoltaic effect

608. Which of the following is a type of biomass?

- a) Coal
- b) Petroleum
- c) Natural gas
- d) Wood

Answer: d) Wood

609. Which of the following is the cleanest source of energy?

- a) Nuclear energy
- b) Solar energy
- c) Hydro energy
- d) Wind energy

Answer: b) Solar energy

610. Which of the following is an advantage of using tidal energy?

- a) Unlimited availability
- b) Low cost of production
- c) High efficiency
- d) Minimal environmental impact

Answer: c) High efficiency

611. Which of the following is the primary component of biogas?

- a) Carbon dioxide
- b) Methane
- c) Nitrogen

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d) Oxygen

Answer: b) Methane

612. Which of the following is a type of fossil fuel?

a) Nuclear fuel

b) Solar fuel

c) Wind fuel

d) Coal

Answer: d) Coal

613. What is the process by which hydrocarbons are converted into liquid fuels such as gasoline?

a) Combustion

b) Gasification

c) Hydrogenation

d) Pyrolysis

Answer: c) Hydrogenation

614. Which of the following is a type of wind turbine?

a) Vertical-axis turbine

b) Horizontal-axis turbine

c) Inclined-axis turbine

d) Oblique-axis turbine

Answer: b) Horizontal-axis turbine

615. What is the maximum efficiency of a solar panel?

a) 20%

b) 30%

c) 40%

d) 50%

Answer: b) 30%

616. Which of the following is an example of non-renewable energy?

a) Solar energy

b) Wind energy

c) Hydro energy

d) Fossil fuels

Answer: d) Fossil fuels

617. Which of the following is an example of a renewable energy source?

a) Coal

b) Oil

c) Natural gas

d) Biomass

Answer: d) Biomass

618. Which of the following is the process of harnessing the energy of ocean waves?

a) Tidal power

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- b) Wave power
- c) Ocean thermal energy conversion
- d) Underwater energy storage

Answer: b) Wave power

619. Which of the following is a disadvantage of using nuclear energy?

- a) High operating costs
- b) Limited availability
- c) Negative environmental impact
- d) High risk of accidents

Answer: d) High risk of accidents

620. What is the process by which natural gas is extracted from the ground?

- a) Drilling
- b) Mining
- c) Fracking
- d) Pumping

Answer: c) Fracking

621. Which of the following is a renewable source of energy derived from the movement of water?

- a) Hydrogen energy
- b) Tidal energy
- c) Geothermal energy
- d) Nuclear energy

Answer: b) Tidal energy

622. What is the primary component of solar panels?

- a) Silicon
- b) Carbon
- c) Copper
- d) Gold

Answer: a) Silicon

623. Which of the following is the process by which biomass is burned to produce heat and electricity?

- a) Combustion
- b) Fermentation
- c) Gasification
- d) Photosynthesis

Answer: a) Combustion

624. Which of the following is a type of concentrated solar power technology?

- a) Parabolic trough
- b) Solar tower
- c) Dish Stirling
- d) All of the above

Answer: d) All of the above

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625. Which of the following is an advantage of using geothermal energy?

- a) High availability
- b) Low installation costs
- c) Minimal environmental impact
- d) High efficiency

Answer: d) High efficiency

626. What is the process by which wind energy is converted into electrical energy?

- a) Photovoltaic effect
- b) Electromagnetic induction
- c) Piezoelectric effect
- d) Electrolysis

Answer: b) Electromagnetic induction

627. Which of the following is a disadvantage of using wind energy?

- a) High installation costs
- b) Limited availability
- c) High environmental impact
- d) Low efficiency

Answer: a) High installation costs

628. Which of the following is a type of energy that is stored in the nucleus of an atom?

- a) Solar energy
- b) Wind energy
- c) Nuclear energy
- d) Geothermal energy

Answer: c) Nuclear energy

629. Which of the following is a disadvantage of using hydro energy?

- a) High installation costs
- b) Limited availability
- c) High environmental impact
- d) Low efficiency

Answer: b) Limited availability

629. Which of the following is a type of renewable energy derived from the heat of the Earth's interior?

- a) Tidal energy
- b) Geothermal energy
- c) Wave energy
- d) Biomass energy

Answer: b) Geothermal energy

630. Which of the following is a type of fossil fuel that is commonly used for heating and cooking?

- a) Coal
- b) Oil

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- c) Natural gas
- d) Uranium

Answer: c) Natural gas

631. What is the process by which biomass is converted into a liquid fuel such as ethanol?

- a) Combustion
- b) Gasification
- c) Fermentation
- d) Pyrolysis

Answer: c) Fermentation

632. Which of the following is a disadvantage of using solar energy?

- a) Limited availability
- b) High installation costs
- c) Negative environmental impact
- d) Low efficiency

Answer: b) High installation costs

633. What is the process by which water is converted into steam to drive a turbine in a thermal power plant?

- a) Combustion
- b) Gasification
- c) Fermentation
- d) Boiling

Answer: d) Boiling

634. Which of the following is a type of concentrated solar power technology that uses mirrors to focus sunlight onto a central receiver?

- a) Parabolic trough
- b) Solar tower
- c) Dish Stirling
- d) None of the above

Answer: b) Solar tower

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English

1: He is wearing _____ blue shirt. (a/an/the)

A: He is wearing a blue shirt.

2: Have you seen _____ new movie? (a/an/the)

A: Have you seen the new movie?

3: Can you please bring me _____ glass of water? (a/an/the)

A: Can you please bring me a glass of water?

4: _____ book on the shelf is mine. (a/an/the)

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A: The book on the shelf is mine.

5: She is studying to become _____ engineer. (a/an/the)

A: She is studying to become an engineer.

6: We saw _____ shooting star last night. (a/an/the)

A: We saw a shooting star last night.

7: I need to buy _____ new shoes. (a/an/the)

A: I need to buy new shoes.

8: _____ car in the driveway is my sister's. (a/an/the)

A: The car in the driveway is my sister's.

Q: He is _____ only child in his family. (a/an/the)

A: He is the only child in his family.

9: I need _____ pencil. (a/an/the)

A: I need a pencil.

10: I would like to have _____ ice cream. (a/an/the)

A: I would like to have some ice cream.

11: _____ tallest building in the world is located in Dubai. (a/an/the)

A: The tallest building in the world is located in Dubai.

12: Can you please give me _____ example of a palindrome? (a/an/the)

A: Can you please give me an example of a palindrome?

14: She is wearing _____ silver necklace. (a/an/the)

A: She is wearing a silver necklace.

15: _____ moon is visible in the sky tonight. (a/an/the)

A: The moon is visible in the sky tonight.

16: I need to buy _____ loaf of bread from the bakery. (a/an/the)

A: I need to buy a loaf of bread from the bakery.

17: He is studying _____ French language. (a/an/the)

A: He is studying the French language.

18: I saw _____ interesting movie last night. (a/an/the)

A: I saw an interesting movie last night.

19: _____ cat is hiding under the table. (a/an/the)

A: The cat is hiding under the table.

20: Can you please hand me _____ stapler on the desk? (a/an/the)

A: Can you please hand me the stapler on the desk?

21: Can you give me _____ apple? (a/an/the)

A: Can you give me an apple?

22: _____ cat is sleeping on the couch. (a/an/the)

A: The cat is sleeping on the couch.

23: She is _____ doctor. (a/an/the)

A: She is a doctor.

24: He is _____ best student in the class. (a/an/the)

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A: He is the best student in the class.

25: _____ sun is shining brightly today. (a/an/the)

A: The sun is shining brightly today.

26: Can you please pass me _____ salt? (a/an/the)

A: Can you please pass me the salt?

27: I would like to buy _____ new car. (a/an/the)

A: I would like to buy a new car.

28: She needs to buy _____ dress for the party. (a/an/the)

A: She needs to buy a dress for the party.

29: _____ elephant is a very intelligent animal. (a/an/the)

A: The elephant is a very intelligent animal.

30: I bought _____ apple and _____ banana at the grocery store. (a/an/the)

A: I bought an apple and a banana at the grocery store.

31: She is _____ talented musician. (a/an/the)

A: She is a talented musician.

32: _____ ocean is the largest body of water on Earth. (a/an/the)

A: The ocean is the largest body of water on Earth.

33: Can you please give me _____ glass of orange juice? (a/an/the)

A: Can you please give me a glass of orange juice?

34: _____ Statue of Liberty is located in New York City. (a/an/the)

A: The Statue of Liberty is located in New York City.

35: He is looking for _____ job in marketing. (a/an/the)

A: He is looking for a job in marketing.

36: We saw _____ beautiful rainbow after the rain. (a/an/the)

A: We saw a beautiful rainbow after the rain.

37: She is wearing _____ elegant dress to the party. (a/an/the)

A: She is wearing an elegant dress to the party.

38: _____ sky is very clear today. (a/an/the)

A: The sky is very clear today.

39: Can you please pass me _____ salt and _____ pepper? (a/an/the)

A: Can you please pass me the salt and the pepper?

40: He is _____ honest person. (a/an/the)

A: He is an honest person.

41: _____ Great Wall of China is a popular tourist attraction. (a/an/the)

A: The Great Wall of China is a popular tourist attraction.

42: Can you please give me _____ pencil? (a/an/the)

A: Can you please give me a pencil?

43: She is listening to _____ music on her phone. (a/an/the)

A: She is listening to music on her phone.

44: _____ sun rises in the east and sets in the west. (a/an/the)

A: The sun rises in the east and sets in the west.

45: I need to buy _____ pair of running shoes. (a/an/the)

A: I need to buy a pair of running shoes.

46: We saw _____ amazing fireworks display on New Year's Eve. (a/an/the)

A: We saw an amazing fireworks display on New Year's Eve.

47: She is wearing _____ diamond necklace. (a/an/the)

A: She is wearing a diamond necklace.

48: _____ Earth is the third planet from the sun. (a/an/the)

A: The Earth is the third planet from the sun.

49: Can you please pass me _____ fork and _____ knife? (a/an/the)

A: Can you please pass me the fork and the knife?

Q: I have _____ friends who are fluent in Spanish. (a few/the few/few)

➤ A: I have a few friends who are fluent in Spanish.

Q: _____ students who passed the test were very happy. (a few/the few/few)

➤ A: The few students who passed the test were very happy.

Q: I have _____ apples left in the basket. (a few/the few/few)

❖ A: I have a few apples left in the basket.

Q: _____ people understand the complexity of the situation. (a few/the few/few)

❖ A: Few people understand the complexity of the situation.

Q: _____ employees were selected for the new project. (a few/the few/few)

❖ A: The few employees were selected for the new project.

Q: I have _____ options to choose from. (a few/the few/few)

❖ A: I have a few options to choose from.

Q: _____ people attended the conference. (a few/the few/few)

❖ A: The few people attended the conference.

Q: I have _____ books on the shelf. (a few/the few/few)

❖ A: I have few books on the shelf.

Q: _____ applicants met the requirements for the job. (a few/the few/few)

❖ A: The few applicants met the requirements for the job.

Q: I have _____ dollars in my wallet. (a few/the few/few)

❖ A: I have a few dollars in my wallet.

Q: _____ students came to class today. (a few/the few/few)

❖ A: Few students came to class today.

Q: I have read _____ books on this topic. (a few/the few/few)

❖ A: I have read a few books on this topic.

Q: _____ employees were given a bonus for their hard work. (a few/the few/few)

❖ A: The few employees were given a bonus for their hard work.

Q: I have _____ memories of that trip. (a few/the few/few)

❖ A: I have few memories of that trip.

Q: _____ people can solve this puzzle. (a few/the few/few)

❖ A: The few people can solve this puzzle.

Q: I have _____ friends who are interested in hiking. (a few/the few/few)

❖ A: I have a few friends who are interested in hiking.

Q: _____ people attended the concert. (a few/the few/few)

❖ A: A few people attended the concert.

Q: _____ students passed the final exam. (a few/the few/few)

❖ A: The few students passed the final exam.

Q: I have _____ options for my vacation. (a few/the few/few)

❖ A: I have few options for my vacation.

Q: _____ people understand the importance of recycling. (a few/the few/few)

❖ A: Few people understand the importance of recycling.

Q: I have met _____ people who share my interests. (a few/the few/few)

❖ A: I have met a few people who share my interests.

Q: _____ tickets are left for the show tonight. (a few/the few/few)

❖ A: Few tickets are left for the show tonight.

Q: I have eaten at _____ restaurants in this area. (a few/the few/few)

❖ A: I have eaten at a few restaurants in this area.

Q: _____ students are enrolled in the advanced course. (a few/the few/few)

❖ A: The few students are enrolled in the advanced course.

Q: I have _____ hours of free time today. (a few/the few/few)

❖ A: I have a few hours of free time today.

Q: _____ people can solve this math problem. (a few/the few/few)

❖ A: A few people can solve this math problem.

Q: I have _____ options for my career. (a few/the few/few)

❖ A: I have few options for my career.

Q: _____ employees were promoted this year. (a few/the few/few)

❖ A: The few employees were promoted this year.

Q: I have _____ pictures from my childhood. (a few/the few/few)

❖ A: I have few pictures from my childhood.

Q: _____ people know the answer to this trivia question. (a few/the few/few)

❖ A: Few people know the answer to this trivia question.

Q: _____ flowers were left in the vase. (a few/the few/few)

❖ A: A few flowers were left in the vase.

Q: _____ athletes were chosen for the Olympic team. (a few/the few/few)

❖ A: The few athletes were chosen for the Olympic team.

Q: I have _____ options for dinner tonight. (a few/the few/few)

❖ A: I have few options for dinner tonight.

Q: _____ people have visited this museum. (a few/the few/few)

❖ A: The few people have visited this museum.

Q: I have read _____ pages of this book so far. (a few/the few/few)

❖ A: I have read a few pages of this book so far.

Q: _____ items were left on the shelf. (a few/the few/few)

❖ A: Few items were left on the shelf.

Q: I have _____ friends who are fluent in Spanish. (a few/the few/few)

❖ A: I have a few friends who are fluent in Spanish.

Q: _____ customers complained about the service. (a few/the few/few)

❖ A: A few customers complained about the service.

Q: I have _____ memories of my time in college. (a few/the few/few)

❖ A: I have few memories of my time in college.

Q: _____ people were in the room when the presentation started. (a few/the few/few)

❖ A: Few people were in the room when the presentation started.

Q: _____ students were present in the class when the teacher arrived. (a few/the few/few)

❖ A: Few students were present in the class when the teacher arrived.

Q: I have _____ items left on my to-do list. (a few/the few/few)

❖ A: I have a few items left on my to-do list.

Q: _____ people believe in ghosts. (a few/the few/few)

❖ A: A few people believe in ghosts.

Q: I have _____ dollars in my wallet. (a few/the few/few)

❖ A: I have a few dollars in my wallet.

Q: _____ books in the library are available for checkout. (a few/the few/few)

❖ A: The few books in the library are available for checkout.

Q: I have _____ years of experience in this field. (a few/the few/few)

❖ A: I have a few years of experience in this field.

Q: _____ guests arrived late for the party. (a few/the few/few)

❖ A: Few guests arrived late for the party.

Q: I have read _____ articles on this topic. (a few/the few/few)

❖ A: I have read a few articles on this topic.

Q: _____ people can solve this puzzle. (a few/the few/few)

❖ A: The few people can solve this puzzle.

Q: I have _____ tasks to complete before the deadline. (a few/the few/few)

❖ A: I have few tasks to complete before the deadline.

Q: _____ students understood the complex math problem. (a few/the few/few)

❖ A: The few students understood the complex math problem.

Q: I have _____ friends who enjoy hiking. (a few/the few/few)

❖ A: I have a few friends who enjoy hiking.

Q: _____ birds were left in the cage after the others flew away. (a few/the few/few)

❖ A: Few birds were left in the cage after the others flew away.

Q: I have _____ days left to prepare for the exam. (a few/the few/few)

❖ A: I have a few days left to prepare for the exam.

Q: _____ cars in the parking lot were vandalized. (a few/the few/few)

❖ A: The few cars in the parking lot were vandalized.

Q: I have _____ years of schooling left before I graduate. (a few/the few/few)

❖ A: I have a few years of schooling left before I graduate.

Q: _____ people understood the joke. (a few/the few/few)

❖ A: A few people understood the joke.

Q: I have read _____ chapters of the book so far. (a few/the few/few)

❖ A: I have read few chapters of the book so far.

Q: _____ opportunities were available for the job. (a few/the few/few)

❖ A: The few opportunities were available for the job.

Q: I have _____ options for lunch today. (a few/the few/few)

❖ A: I have few options for lunch today.

Q: _____ people attended the meeting. (a few/the few/few)

❖ A: A few people attended the meeting.

Q: I have _____ coins in my pocket. (a few/the few/few)

❖ A: I have few coins in my pocket.

Q: _____ dogs are allowed in the park. (a few/the few/few)

❖ A: The few dogs are allowed in the park.

Q: I have _____ friends who live in this city. (a few/the few/few)

❖ A: I have a few friends who live in this city.

Q: _____ minutes are left until the movie starts. (a few/the few/few)

❖ A: Few minutes are left until the movie starts.

Q: I have _____ days off from work this month. (a few/the few/few)

❖ A: I have a few days off from work this month.

Q: _____ people have won the lottery. (a few/the few/few)

❖ A: The few people have won the lottery.

Q: I have _____ tasks to complete before the end of the day. (a few/the few/few)

❖ A: I have a few tasks to complete before the end of the day.

Q: _____ books on this topic are worth reading. (a few/the few/few)

❖ A: A few books on this topic are worth reading.

Q: I have _____ options for dinner tonight. (a few/the few/few)

❖ A: I have few options for dinner tonight.

Q: I have _____ minutes to catch my train. (a few/the few/few)

❖ A: I have few minutes to catch my train.

Q: _____ students passed the exam. (a few/the few/few)

❖ A: The few students passed the exam.

Q: I have _____ hours of free time this weekend. (a few/the few/few)

❖ A: I have a few hours of free time this weekend.

Q: _____ people showed up to the party. (a few/the few/few)

❖ A: A few people showed up to the party.

Q: I have _____ job interviews scheduled for this week. (a few/the few/few)

❖ A: I have a few job interviews scheduled for this week.

Q: _____ chairs were left in the meeting room. (a few/the few/few)

❖ A: The few chairs were left in the meeting room.

Q: I have _____ friends who play soccer. (a few/the few/few)

❖ A: I have few friends who play soccer.

Q: _____ days remain until the deadline. (a few/the few/few)

❖ A: Few days remain until the deadline.

Q: I have read _____ pages of the novel so far. (a few/the few/few)

❖ A: I have read a few pages of the novel so far.

Q: _____ pieces of cake were left at the party. (a few/the few/few)

❖ A: The few pieces of cake were left at the party.

Q: I need _____ more time to finish my project. (a little/the little/little)

❖ A: I need a little more time to finish my project.

Q: _____ information we have is not enough to solve the problem. (a little/the little/little)

❖ A: The little information we have is not enough to solve the problem.

Q: I have _____ experience in cooking. (a little/the little/little)

❖ A: I have a little experience in cooking.

Q: _____ progress has been made in the investigation. (a little/the little/little)

❖ A: Little progress has been made in the investigation.

Q: I have _____ money left in my bank account. (a little/the little/little)

❖ A: I have a little money left in my bank account.

Q: _____ support we received from the community was helpful. (a little/the little/little)

❖ A: The little support we received from the community was helpful.

Q: I have _____ knowledge about history. (a little/the little/little)

❖ A: I have little knowledge about history.

Q: _____ time is left until the deadline. (a little/the little/little)

❖ A: A little time is left until the deadline.

Q: I have _____ understanding of the subject. (a little/the little/little)

❖ A: I have the little understanding of the subject.

Q: _____ effort was required to complete the task. (a little/the little/little)

❖ A: A little effort was required to complete the task.

Q: I have _____ knowledge about the topic we discussed. (a little/the little/little)

❖ A: I have a little knowledge about the topic we discussed.

Q: _____ attention is required to detail. (a little/the little/little)

❖ A: The little attention is required to detail.

Q: I have _____ experience in playing the guitar. (a little/the little/little)

❖ A: I have the little experience in playing the guitar.

Q: _____ milk is left in the fridge. (a little/the little/little)

❖ A: A little milk is left in the fridge.

Q: I have _____ time to spare for a quick chat. (a little/the little/little)

❖ A: I have a little time to spare for a quick chat.

Q: _____ improvement has been made in the situation. (a little/the little/little)

❖ A: Little improvement has been made in the situation.

Q: I have _____ understanding of French. (a little/the little/little)

❖ A: I have a little understanding of French.

Q: _____ rain is expected tomorrow. (a little/the little/little)

❖ A: Little rain is expected tomorrow.

Q: I have _____ knowledge of the city's history. (a little/the little/little)

❖ A: I have the little knowledge of the city's history.

Q: _____ effort is required to complete the task. (a little/the little/little)

❖ A: The little effort is required to complete the task.

Q: I have _____ interest in sports. (a little/the little/little)

❖ A: I have a little interest in sports.

Q: _____ knowledge I have about the subject is not enough to write a paper. (a little/the little/little)

❖ A: The little knowledge I have about the subject is not enough to write a paper.

Q: I have _____ time to study for the exam. (a little/the little/little)

❖ A: I have a little time to study for the exam.

Q: _____ change has occurred in the company's policies. (a little/the little/little)

❖ A: Little change has occurred in the company's policies.

Q: I have _____ knowledge of art history. (a little/the little/little)

❖ A: I have the little knowledge of art history.

Q: _____ effort is required to fix the broken machine. (a little/the little/little)

❖ A: A little effort is required to fix the broken machine.

Q: I have _____ understanding of the new software. (a little/the little/little)

❖ A: I have a little understanding of the new software.

Q: _____ water is needed to cook the pasta. (a little/the little/little)

❖ A: A little water is needed to cook the pasta.

Q: I have _____ interest in politics. (a little/the little/little)

❖ A: I have little interest in politics.

Q: _____ progress has been made in the construction of the new building. (a little/the little/little)

❖ A: The little progress has been made in the construction of the new building.

Q: _____ sugar is required for the recipe. (a little/the little/little)

❖ A: A little sugar is required for the recipe.

Q: I have _____ understanding of the stock market. (a little/the little/little)

❖ A: I have the little understanding of the stock market.

Q: _____ progress has been made on the project. (a little/the little/little)

❖ A: Little progress has been made on the project.

Q: I have _____ interest in watching horror movies. (a little/the little/little)

❖ A: I have little interest in watching horror movies.

Q: _____ patience is required to complete this task. (a little/the little/little)

❖ A: The little patience is required to complete this task.

Q: I have _____ knowledge of ancient history. (a little/the little/little)

❖ A: I have a little knowledge of ancient history.

Q: _____ snow is expected tomorrow. (a little/the little/little)

❖ A: Little snow is expected tomorrow.

Q: I have _____ experience in public speaking. (a little/the little/little)

❖ A: I have a little experience in public speaking.

Q: _____ effort is needed to complete this task. (a little/the little/little)

❖ A: A little effort is needed to complete this task.

Q: I have _____ understanding of the scientific principles involved. (a little/the little/little)

❖ A: I have the little understanding of the scientific principles involved.

Q: _____ caution is advised when handling this chemical. (a little/the little/little)

❖ A: A little caution is advised when handling this chemical.

Q: I have _____ experience with web design. (a little/the little/little)

❖ A: I have the little experience with web design.

Q: _____ progress has been made on the sales report. (a little/the little/little)

❖ A: Little progress has been made on the sales report.

Q: I have _____ knowledge of the Spanish language. (a little/the little/little)

❖ A: I have a little knowledge of the Spanish language.

Q: _____ rain is expected today. (a little/the little/little)

❖ A: The little rain is expected today.

Q: I have _____ patience for dealing with difficult people. (a little/the little/little)

❖ A: I have little patience for dealing with difficult people.

Q: _____ time is needed to complete this project. (a little/the little/little)

❖ A: A little time is needed to complete this project.

Q: I have _____ understanding of the legal system. (a little/the little/little)

❖ A: I have the little understanding of the legal system.

Q: _____ effort is required to get in shape. (a little/the little/little)

❖ A: Little effort is required to get in shape.

Q: I have _____ interest in cooking. (a little/the little/little)

❖ A: I have a little interest in cooking.

Q: I need to add _____ salt to this soup. (a little/the little/little)

❖ A: I need to add a little salt to this soup.

Q: _____ progress has been made on the construction site. (a little/the little/little)

❖ A: The little progress has been made on the construction site.

Q: I have _____ knowledge of French grammar. (a little/the little/little)

❖ A: I have a little knowledge of French grammar.

Q: _____ money is left in my bank account. (a little/the little/little)

❖ A: Little money is left in my bank account.

Q: I have _____ experience in customer service. (a little/the little/little)

❖ A: I have the little experience in customer service.

Q: _____ time is needed to complete this book. (a little/the little/little)

❖ A: Little time is needed to complete this book.

Q: I have _____ interest in playing video games. (a little/the little/little)

❖ A: I have little interest in playing video games.

Q: _____ caution is needed when handling this equipment. (a little/the little/little)

❖ A: The little caution is needed when handling this equipment.

Q: I have _____ understanding of the stock market. (a little/the little/little)

❖ A: I have a little understanding of the stock market.

Q: _____ effort is required to get a good grade on this exam. (a little/the little/little)

❖ A: A little effort is required to get a good grade on this exam.

Q: I have _____ knowledge of computer programming. (a little/the little/little)

❖ A: I have little knowledge of computer programming.

Q: _____ sugar is needed for this recipe. (a little/the little/little)

❖ A: A little sugar is needed for this recipe.

Q: I have _____ experience in public speaking. (a little/the little/little)

❖ A: I have the little experience in public speaking.

Q: _____ progress has been made on the new project. (a little/the little/little)

❖ A: Little progress has been made on the new project.

Q: I have _____ understanding of the history of art. (a little/the little/little)

❖ A: I have a little understanding of the history of art.

Q: _____ caution is necessary when driving on this road. (a little/the little/little)

❖ A: The little caution is necessary when driving on this road.

Q: I have _____ patience for waiting in long lines. (a little/the little/little)

❖ A: I have little patience for waiting in long lines.

Q: _____ effort is needed to finish this task. (a little/the little/little)

❖ A: A little effort is needed to finish this task.

Q: I have _____ knowledge of world geography. (a little/the little/little)

❖ A: I have the little knowledge of world geography.

Q: _____ rain is expected for tomorrow. (a little/the little/little)

❖ A: A little rain is expected for tomorrow.

Q: Have you seen _____ of my missing books? (any/every/each)

❖ A: Have you seen any of my missing books?

Q: _____ student in the class must complete the homework assignment.
(any/every/each)

❖ A: Every student in the class must complete the homework assignment.

Q: I haven't received _____ notification from the company yet. (any/every/each)

❖ A: I haven't received any notification from the company yet.

Q: _____ of the flowers in the garden is unique in its own way. (any/every/each)

❖ A: Each of the flowers in the garden is unique in its own way.

Q: _____ person is welcome to attend the meeting. (any/every/each)

❖ A: Any person is welcome to attend the meeting.

Q: The teacher gave _____ student a sticker for their good behavior.
(any/every/each)

❖ A: The teacher gave each student a sticker for their good behavior.

Q: _____ child should have access to quality education. (any/every/each)

❖ A: Every child should have access to quality education.

Q: I haven't received _____ updates about the project timeline. (any/every/each)

❖ A: I haven't received any updates about the project timeline.

Q: _____ of the players on the team has their own strengths and weaknesses.
(any/every/each)

❖ A: Each of the players on the team has their own strengths and weaknesses.

Q: Can you pass me _____ of the pencils on the table? (any/every/each)

❖ A: Can you pass me each of the pencils on the table?

Q: I can't seem to find _____ of my socks. (any/every/each)

❖ A: I can't seem to find any of my socks.

Q: _____ piece of artwork in the exhibit is stunning. (any/every/each)

❖ A: Each piece of artwork in the exhibit is stunning.

Q: _____ person on the team is responsible for completing their assigned tasks. (any/every/each)

❖ A: Every person on the team is responsible for completing their assigned tasks.

Q: Can you give me _____ details about the event? (any/every/each)

❖ A: Can you give me any details about the event?

Q: _____ morning I go for a run around the park. (any/every/each)

❖ A: Every morning I go for a run around the park.

Q: _____ of the paintings in the gallery is by a different artist. (any/every/each)

❖ A: Each of the paintings in the gallery is by a different artist.

Q: I haven't received _____ responses to my job applications. (any/every/each)

❖ A: I haven't received any responses to my job applications.

Q: Can you please bring me _____ of the books on the shelf? (any/every/each)

❖ A: Can you please bring me each of the books on the shelf?

Q: _____ athlete in the race must follow the rules. (any/every/each)

❖ A: Every athlete in the race must follow the rules.

Q: I don't have _____ knowledge about the topic. (any/every/each)

❖ A: I don't have any knowledge about the topic.

Q: _____ student in the class must complete the assignment. (any/every/each)

❖ A: Every student in the class must complete the assignment.

Q: Can you please give me _____ information about the new policy?
(any/every/each)

❖ A: Can you please give me any information about the new policy?

Q: _____ person at the party must wear a mask. (any/every/each)

❖ A: Each person at the party must wear a mask.

Q: I don't have _____ experience in coding. (any/every/each)

❖ A: I don't have any experience in coding.

Q: _____ member of the team is required to attend the meeting. (any/every/each)

❖ A: Every member of the team is required to attend the meeting.

Q: I want to try _____ flavor of ice cream in the store. (any/every/each)

❖ A: I want to try every flavor of ice cream in the store.

Q: Can you pass me _____ salt on the table? (any/every/each)

❖ A: Can you pass me the salt on the table?

Q: _____ child in the class received a certificate for their good behavior.
(any/every/each)

❖ A: Each child in the class received a certificate for their good behavior.

Q: I haven't seen _____ of my old friends in years. (any/every/each)

❖ A: I haven't seen any of my old friends in years.

Q: _____ day I make a to-do list to stay organized. (any/every/each)

❖ A: Every day I make a to-do list to stay organized.

Q: Can you give me _____ advice on how to improve my writing skills?
(any/every/each)

❖ A: Can you give me any advice on how to improve my writing skills?

Q: _____ person in the room is required to fill out the survey. (any/every/each)

❖ A: Each person in the room is required to fill out the survey.

Q: I can't seem to find _____ of my favorite books. (any/every/each)

❖ A: I can't seem to find any of my favorite books.

Q: _____ movie in the theater is rated R. (any/every/each)

❖ A: Every movie in the theater is rated R.

Q: _____ time I try to bake a cake, it doesn't turn out well. (any/every/each)

❖ A: Each time I try to bake a cake, it doesn't turn out well.

Q: I need to buy _____ ingredients for the recipe. (any/every/each)

❖ A: I need to buy every ingredient for the recipe.

Q: _____ student who finishes the test early may leave the classroom.
(any/every/each)

❖ A: Any student who finishes the test early may leave the classroom.

Q: _____ plant in the garden needs water. (any/every/each)

❖ A: Each plant in the garden needs water.

Q: I haven't received _____ emails from my boss about the project.
(any/every/each)

❖ A: I haven't received any emails from my boss about the project.

Q: _____ guest at the wedding must wear formal attire. (any/every/each)

❖ A: Every guest at the wedding must wear formal attire.

Q: I don't have _____ plans for the weekend. (any/every/each)

❖ A: I don't have any plans for the weekend.

Q: _____ time I see my neighbor, she's walking her dog. (any/every/each)

❖ A: Every time I see my neighbor, she's walking her dog.

Q: _____ person is responsible for cleaning up the kitchen after dinner.
(any/every/each)

❖ A: Each person is responsible for cleaning up the kitchen after dinner.

Q: I'll accept _____ job offer that comes my way. (any/every/each)

❖ A: I'll accept any job offer that comes my way.

Q: _____ student in the class must take the final exam. (any/every/each)

❖ A: Every student in the class must take the final exam.

Q: I'm trying to eat healthier, so I'm avoiding _____ junk food. (any/every/each)

❖ A: I'm avoiding all junk food.

Q: _____ time I watch that movie, I notice something new. (any/every/each)

❖ A: Each time I watch that movie, I notice something new.

Q: I don't think _____ of my coworkers likes me. (any/every/each)

❖ A: I don't think any of my coworkers likes me.

Q: _____ book on the shelf is mine. (any/every/each)

❖ A: Each book on the shelf is mine.

Q: I'm willing to try _____ type of food once. (any/every/each)

❖ A: I'm willing to try any type of food once.

The book is _____ the table.

A. on

B. in

C. at

❖ D. over

Answer: A. on

My sister _____ to the gym every day.

A. goes

B. go

C. going

❖ D. went

Answer: A. goes

The weather is _____ today.

A. sunny

B. raining

C. snowing

❖ D. cloudy

Answer: A. sunny

I have _____ my keys.

A. lost

B. lose

C. losing

❖ D. losed

Answer: A. lost

We _____ a new car last week.

A. buy

B. bought

C. buying

❖ D. buys

Answer: B. bought

The students _____ in the classroom.

A. is

B. are

C. was

❖ D. be

Answer: B. are

I _____ the movie last night.

A. watched

B. watch

C. watching

❖ D. watches

Answer: A. watched

The concert _____ at 7 p.m. tonight.

A. is starting

B. starting

C. started

❖ D. starts

Answer: A. is starting

They _____ lunch together every day.

A. have

B. has

C. had

❖ D. having

Answer: A. have

The cat is sleeping _____ the couch.

A. on

B. in

C. at

D. by

Answer: A. on

We _____ dinner at 7 p.m. every day.

A. have

B. has

C. had

❖ D. having

Answer: A. have

I _____ a new job next week.

A. start

B. starting

C. started

❖ D. starts

Answer: A. start

The flowers in the garden _____ beautiful.

A. is

B. are

C. was

❖ D. be

Answer: B. are

She _____ her phone at home.

A. forgets

B. forget

C. forgetting

❖ D. forgot

Answer: D. forgot

My parents _____ to the movies last night.

A. go

B. went

C. going

❖ D. goes

Answer: B. went

The restaurant _____ at 8 a.m.

A. opens

B. open

C. opening

❖ D. opened

Answer: A. opens

She is _____ English teacher.

A. a

B. an

C. the

❖ D. none of the above

Answer: A. a

My sister _____ a good cook.

A. is

B. are

C. was

❖ D. be

Answer: A. is

I _____ my friend yesterday.

A. see

B. saw

C. seeing

❖ D. seen

Answer: B. saw

The children _____ playing in the park.

A. is

B. are

C. was

❖ D. be

Answer: B. are

She _____ to the gym three times a week.

A. goes

B. go

C. going

1. D. went

Answer: A. goes

My sister and I _____ to the mall yesterday.

A. went

B. goes

C. going

❖ D. go

Answer: A. went

The teacher _____ the students for their hard work.

A. congratulates

B. congratulate

C. congratulated

❖ D. congratulating

Answer: C. congratulated

We _____ our breakfast before leaving the house.

A. have

B. has

C. had

• D. having

Answer: A. have

She _____ a book when I called her.

A. reads

B. read

C. reading

❖ D. will read

Answer: B. read

The weather _____ perfect today.

A. is

B. are

C. was

❖ D. be

Answer: A. is

They _____ a party last night.

A. have

B. has

C. had

❖ D. having

Answer: C. had

I _____ my keys on the table.

A. leave

B. left

C. leaving

❖ D. leaves

Answer: B. left

He _____ a sandwich for lunch every day.

A. eats

B. ate

C. eating

❖ D. will eat

Answer: A. eats

The company _____ a new CEO next month.

A. hires

B. hired

C. hiring

❖ D. will hire

Answer: D. will hire

I _____ a lot of interesting places during my trip to Europe.

- A. visit
- B. visited
- C. visiting

❖ D. will visit

Answer: B. visited

She _____ home early yesterday because she was feeling sick.

- A. leaves
- B. left
- C. leaving

❖ D. will leave

Answer: B. left

The team _____ to the championship game last year.

- A. go
- B. goes
- C. went

❖ D. going

Answer: C. went

My parents _____ their wedding anniversary next week.

- A. celebrate
- B. celebrated
- C. celebrating

❖ D. will celebrate

Answer: D. will celebrate

We _____ dinner at our favorite restaurant tonight.

A. have

B. has

C. had

❖ D. having

Answer: A. have

The baby _____ for hours last night.

A. cries

B. cried

C. crying

❖ D. will cry

Answer: B. cried

She _____ her hair every week.

A. washes

B. washed

C. washing

❖ D. will wash

Answer: A. washes

He _____ his homework before watching TV.

A. does

B. did

C. doing

8. D. will do

Answer: B. did

They _____ the movie last night and loved it.

A. watched

B. watch

C. watching

❖ D. will watch

Answer: A. watched

I _____ my keys in my bag this morning.

A. found

B. find

C. finding

❖ D. will find

Answer: A. found

Yesterday, we (play) _____ soccer in the park.

❖ Answer: played

She (cook) _____ dinner every night.

❖ Answer: cooks

By this time tomorrow, I (finish) _____ my project.

❖ Answer: will have finished

He (study) _____ for the exam all night yesterday.

❖ Answer: studied

She (walk) _____ to work every day.

❖ Answer: walks

I (see) _____ that movie three times already.

❖ Answer: have seen

The plane (take off) _____ at 6:00 in the morning.

❖ Answer: will take off

He (write) _____ his novel for six months now.

❖ Answer: has been writing

They (visit) _____ their grandparents last weekend.

❖ Answer: visited

We (meet) _____ at the coffee shop tomorrow at 10:00 am.

❖ Answer: will meet

I (go) _____ to the gym every Monday, Wednesday, and Friday.

❖ Answer: go

The company (announce) _____ its new product next week.

❖ Answer: will announce

They (watch) _____ a movie when I called them last night.

❖ Answer: were watching

She (teach) _____ English for five years before she moved to France.

❖ Answer: had taught

I (read) _____ this book for two weeks now.

❖ Answer: have been reading

The children (play) _____ outside when it started to rain.

❖ Answer: were playing

He (visit) _____ his parents last weekend.

❖ Answer: visited

By the time we get there, the store (close) _____.

❖ Answer: will have closed

She (listen) _____ to music while she is working.

❖ Answer: listens

We (leave) _____ for our trip next week.

❖ Answer: are leaving

She (sleep) _____ for eight hours last night.

❖ Answer: slept

They (dance) _____ all night at the party last weekend.

❖ Answer: danced

I (have) _____ breakfast before I left the house this morning.

❖ Answer: had

By the time you arrive, we (cook) _____ dinner.

❖ Answer: will have cooked

The teacher (explain) _____ the lesson again because some students didn't understand it.

❖ Answer: explained

She (work) _____ at the company for ten years now.

❖ Answer: has worked

We (play) _____ tennis every weekend during the summer.

❖ Answer: play

The train (arrive) _____ in ten minutes.

❖ Answer: will arrive

He (run) _____ the marathon last year.

❖ Answer: ran

I (finish) _____ reading the book last night.

❖ Answer: finished

They (plan) _____ to go to the beach next weekend.

❖ Answer: are planning

She (study) _____ for her exams all week.

❖ Answer: has been studying

The students (write) _____ their essays at the moment.

❖ Answer: are writing

The company (release) _____ a new product next month.

❖ Answer: will release

He (leave) _____ for his trip in two days.

❖ Answer: is leaving

She (listen) _____ to music every morning while she gets ready.

❖ Answer: listens

They (climb) _____ the mountain yesterday.

❖ Answer: climbed

The doctor (see) _____ patients every day from 9am to 5pm.

❖ Answer: sees

I (buy) _____ this book last week.

❖ Answer: bought

The sun (rise) _____ in the east every morning.

❖ Answer: rises

She (meet) _____ her friends for lunch yesterday.

❖ Answer: met

They (watch) _____ the movie last night.

❖ Answer: watched

The construction workers (build) _____ the new building since last year.

❖ Answer: have been building

He (play) _____ basketball every Tuesday and Thursday.

❖ Answer: plays

I (will study) _____ for my exams tomorrow.

❖ Answer: will study

The dog (bark) _____ at the mailman every day.

❖ Answer: barks

We (visit) _____ our grandparents on the weekend.

❖ Answer: will visit

The flight (take off) _____ in an hour.

❖ Answer: will take off

She (go) _____ to the gym after work today.

❖ Answer: is going

They (clean) _____ the house every Saturday morning.

❖ Answer: clean

I (have) _____ breakfast every morning at 7 am.

❖ Answer: have

They (swim) _____ in the pool all afternoon.

❖ Answer: swam

The chef (prepare) _____ the food for the event next week.

❖ Answer: is preparing

He (read) _____ the newspaper every day.

❖ Answer: reads

We (go) _____ to the movies last night.

❖ Answer: went

She (dance) _____ every Friday night at the club.

❖ Answer: dances

The flowers (bloom) _____ in the spring.

❖ Answer: bloom

The company (hire) _____ new employees next month.

❖ Answer: will hire

He (drive) _____ to work every day.

❖ Answer: drives

We (play) _____ tennis at the park tomorrow morning.

❖ Answer: will play

She (write) _____ a book about her travels.

❖ Answer: is writing

They (run) _____ five miles every morning before work.

❖ Answer: run

The students (study) _____ for their exams all week.

❖ Answer: have been studying

He (do) _____ his homework after dinner.

❖ Answer: does

We (watch) _____ a movie tonight at home.

❖ Answer: will watch

She (paint) _____ the walls of her room last weekend.

❖ Answer: painted

The train (arrive) _____ in 10 minutes.

❖ Answer: will arrive

They (work) _____ at the company for 5 years.

❖ Answer: have worked

I (finish) _____ my work before leaving for the weekend.

❖ Answer: will finish

The sun (rise) _____ in the east and (set) _____ in the west.

❖ Answer: rises, sets

She (not start) _____ the project yet.

❖ Answer: hasn't started

They (play) _____ soccer every Saturday with their friends.

❖ Answer: play

He (be) _____ to New York many times before.

❖ Answer: has been

We (clean) _____ the kitchen before guests arrive.

❖ Answer: will clean

The baby (sleep) _____ for 12 hours last night.

❖ Answer: slept

The company (announce) _____ the new product next month.

❖ Answer: will announce

They (travel) _____ to different countries every summer.

❖ Answer: travel

She (forget) _____ her keys at home this morning.

❖ Answer: forgot

We (wait) _____ for the train for 20 minutes already.

❖ Answer: have been waiting

The teacher (explain) _____ the lesson tomorrow in class.

❖ Answer: will explain

They (visit) _____ their grandparents every summer.

❖ Answer: visit

I (not see) _____ that movie yet.

❖ Answer: haven't seen

She (study) _____ for the exam all week.

❖ Answer: has been studying

He (finish) _____ his work before going on vacation.

❖ Answer: will finish

The train (arrive) _____ at 6 pm tomorrow.

❖ Answer: will arrive

We (enjoy) _____ the party last night.

❖ Answer: enjoyed

They (cook) _____ dinner for their guests tonight.

❖ Answer: will cook

The company (hire) _____ new employees next month.

❖ Answer: will hire

She (work) _____ in that company for 5 years now.

❖ Answer: has been working

I (meet) _____ my friend at the café tomorrow afternoon.

❖ Answer: will meet

I (watch) _____ a movie when my friend called me.

❖ Answer: was watching

She (learn) _____ to play the guitar for a year now.

❖ Answer: has been learning

They (not decide) _____ where to go for their vacation yet.

❖ Answer: haven't decided

We (go) _____ to the beach next weekend.

❖ Answer: will go

He (work) _____ as a teacher before he became a writer.

❖ Answer: worked

The kids (play) _____ soccer in the park now.

❖ Answer: are playing

The company (release) _____ a new product next month.

❖ Answer: will release

She (start) _____ her new job next week.

❖ Answer: will start

They (live) _____ in New York City for 5 years now.

❖ Answer: have been living

I (meet) _____ my old friends after work today.

❖ Answer: will meet

Which hormone is responsible for triggering ovulation in the female reproductive system?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: D) Luteinizing hormone

Where does fertilization usually occur in the female reproductive system?

A) Ovary

B) Fallopian tube

C) Uterus

D) Vagina

Answer: B) Fallopian tube

Which hormone is responsible for stimulating the development of male secondary sexual characteristics?

A) Estrogen

B) Progesterone

C) Testosterone

D) Follicle-stimulating hormone

Answer: C) Testosterone

What is the function of the prostate gland in the male reproductive system?

B.SC NURSING

D.PHARM

ENTRANCE EXAM

A) Production of sperm cells

B) Production of seminal fluid

C) Transport of sperm cells

D) None of the above

Answer: B) Production of seminal fluid

Which hormone is responsible for thickening the endometrial lining of the uterus?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: A) Estrogen

Which of the following structures is not a part of the female reproductive system?

A) Ovary

B) Uterus

C) Testes

D) Fallopian tube

Answer: C) Testes

B.SC NURSING

D.PHARM

ENTRANCE EXAM

How many chromosomes does a sperm cell contain?

A) 23

B) 46

C) 48

D) 92

Answer: A) 23

Which of the following is not a barrier method of contraception?

A) Condom

B) Diaphragm

C) Oral contraceptive pill

D) Cervical cap

Answer: C) Oral contraceptive pill

Which of the following is a sexually transmitted infection?

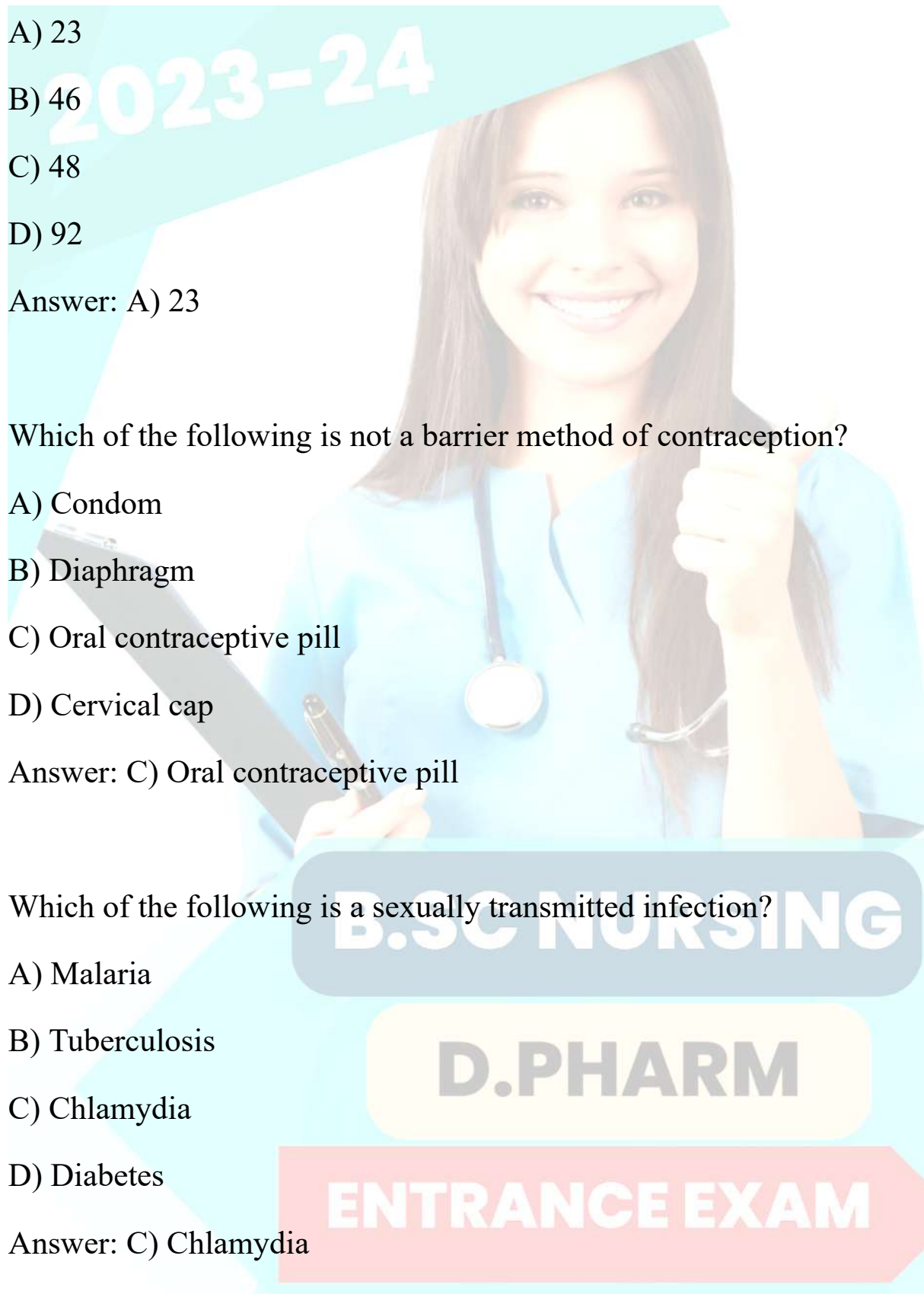
A) Malaria

B) Tuberculosis

C) Chlamydia

D) Diabetes

Answer: C) Chlamydia



What is the name of the process by which sperm cells are produced in the testes?

- A) Meiosis
- B) Mitosis
- C) Fertilization
- D) Ovulation

Answer: A) Meiosis

Which hormone is responsible for maintaining the thickness of the endometrial lining during pregnancy?

- A) Estrogen
- B) Progesterone
- C) Follicle-stimulating hormone
- D) Luteinizing hormone

Answer: B) Progesterone

What is the function of the vas deferens in the male reproductive system?

- A) Production of sperm cells
- B) Production of seminal fluid
- C) Transport of sperm cells
- D) None of the above

Answer: C) Transport of sperm cells

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ENTRANCE EXAM

What is the name of the process by which a sperm cell fuses with an egg cell?

- A) Ovulation
- B) Fertilization
- C) Implantation
- D) Gestation

Answer: B) Fertilization

Which of the following is a method of assisted reproductive technology (ART)?

- A) In vitro fertilization (IVF)
- B) Vasectomy
- C) Tubal ligation
- D) Hysterectomy

Answer: A) In vitro fertilization (IVF)

What is the name of the structure that connects the placenta to the fetus in the uterus?

- A) Amniotic sac
- B) Umbilical cord
- C) Cervix

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ENTRANCE EXAM

D) Endometrium

Answer: B) Umbilical cord

Which hormone is responsible for triggering the release of milk from the mammary glands during breastfeeding?

A) Estrogen

B) Progesterone

C) Prolactin

D) Oxytocin

Answer: D) Oxytocin

What is the name of the process by which the blastocyst attaches to the endometrial lining of the uterus?

A) Implantation

B) Ovulation

C) Fertilization

D) Gestation

Answer: A) Implantation

Which of the following is not a method of contraception?

A) Barrier methods

B) Hormonal methods

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C) Behavioral methods

D) Tubal ligation

Answer: D) Tubal ligation

Which of the following is a type of cancer that can affect the reproductive system?

A) Breast cancer

B) Lung cancer

C) Prostate cancer

D) Ovarian cancer

Answer: D) Ovarian cancer

What is the name of the hormone that is responsible for triggering the start of puberty?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Gonadotropin-releasing hormone (GnRH)

Answer: D) Gonadotropin-releasing hormone (GnRH)

What is the function of the epididymis in the male reproductive system?

A) Production of sperm cells

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ENTRANCE EXAM

B) Production of seminal fluid

C) Transport of sperm cells

D) None of the above

Answer: C) Transport of sperm cells

Which of the following is not a male reproductive organ?

A) Testes

B) Epididymis

C) Vas deferens

D) Ovary

Answer: D) Ovary

What is the name of the hormone that stimulates milk production in the mammary glands?

A) Estrogen

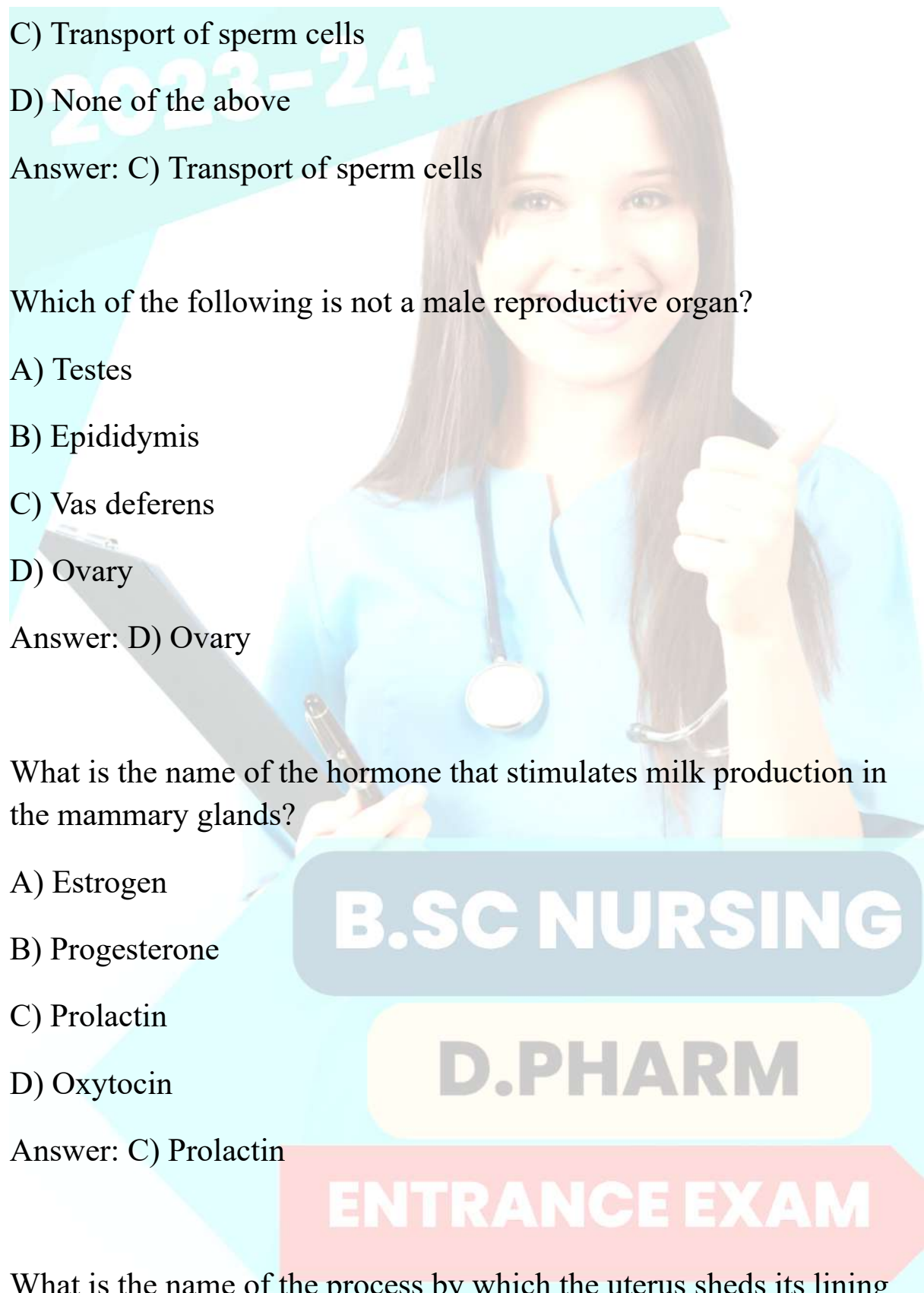
B) Progesterone

C) Prolactin

D) Oxytocin

Answer: C) Prolactin

What is the name of the process by which the uterus sheds its lining during menstruation?



A) Ovulation

B) Fertilization

C) Implantation

D) Menstruation

Answer: D) Menstruation

Which of the following is a method of male contraception?

A) Intrauterine device (IUD)

B) Condom

C) Oral contraceptive pill

D) Diaphragm

Answer: B) Condom

What is the name of the hormone that stimulates the growth of ovarian follicles in the female reproductive system?

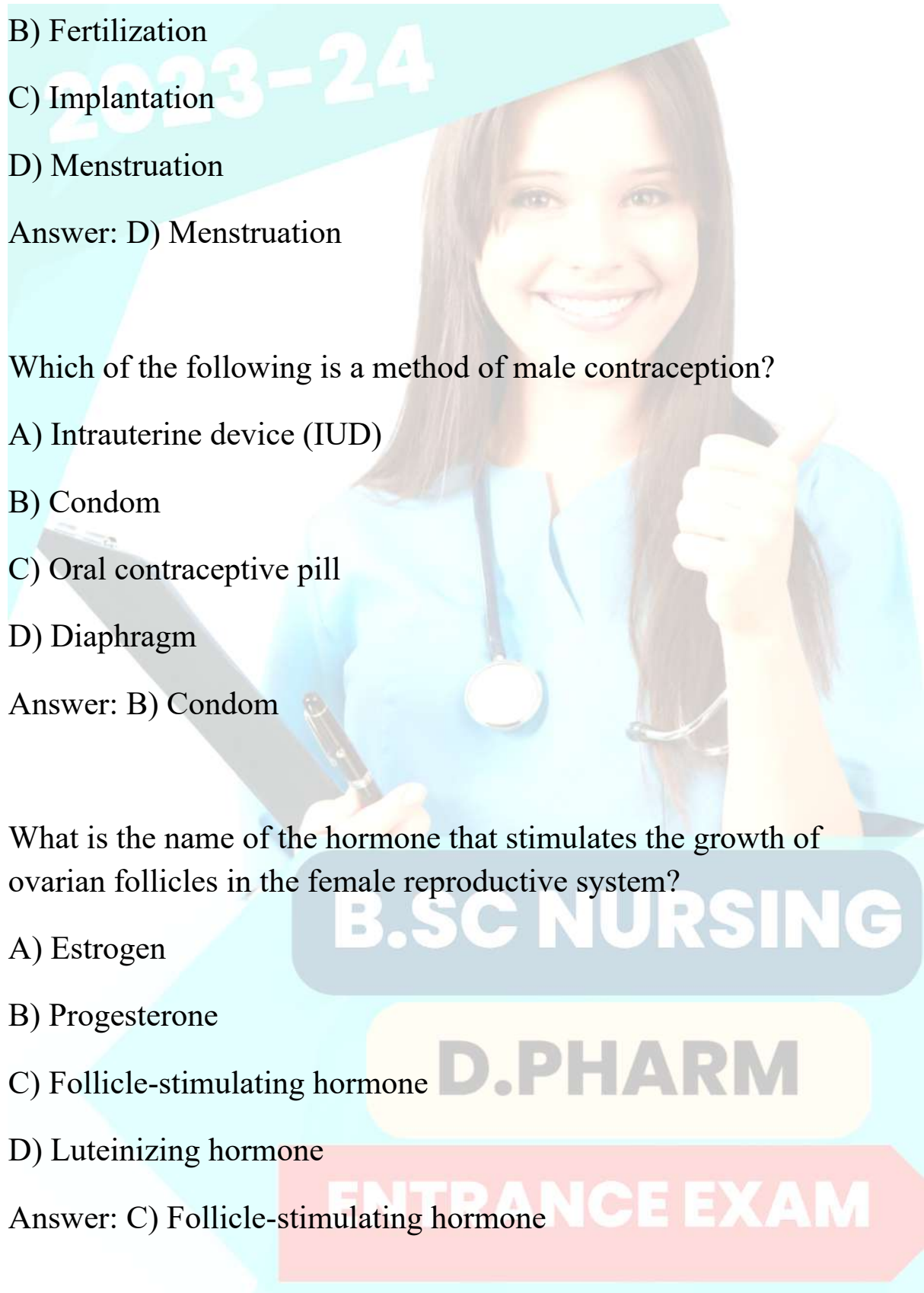
A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: C) Follicle-stimulating hormone



Which of the following is a sexually transmitted infection caused by a virus?

- A) Syphilis
- B) Gonorrhea
- C) Chlamydia
- D) Herpes

Answer: D) Herpes

What is the name of the structure that surrounds and protects the developing fetus in the uterus?

- A) Amniotic sac
- B) Umbilical cord
- C) Cervix
- D) Placenta

Answer: A) Amniotic sac

Which of the following is a method of contraception that can be used after unprotected intercourse?

- A) Condom
- B) Diaphragm
- C) Emergency contraceptive pill
- D) Cervical cap

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ENTRANCE EXAM

Answer: C) Emergency contraceptive pill

Which of the following is a type of assisted reproductive technology (ART) that involves injecting a sperm cell directly into an egg cell?

- A) In vitro fertilization (IVF)
- B) Intracytoplasmic sperm injection (ICSI)
- C) Donor insemination
- D) Gamete intrafallopian transfer (GIFT)

Answer: B) Intracytoplasmic sperm injection (ICSI)

Which of the following is not a female reproductive organ?

- A) Ovary
- B) Uterus
- C) Vagina
- D) Epididymis

Answer: D) Epididymis

What is the name of the process by which the testes produce sperm cells?

- A) Oogenesis
- B) Spermatogenesis
- C) Fertilization

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D) Implantation

Answer: B) Spermatogenesis

What is the name of the structure that connects the uterus to the vagina?

A) Cervix

B) Fallopian tube

C) Ovary

D) Endometrium

Answer: A) Cervix

Which of the following is a method of female contraception?

A) Vasectomy

B) Condom

C) Hormonal methods

D) Tubal ligation

Answer: C) Hormonal methods

What is the name of the hormone that stimulates the release of an egg cell from the ovary during ovulation?

A) Estrogen

B) Progesterone

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C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: D) Luteinizing hormone

Which of the following is a sexually transmitted infection caused by a bacterium?

A) Human papillomavirus (HPV)

B) Chlamydia

C) Genital herpes

D) Human immunodeficiency virus (HIV)

Answer: B) Chlamydia

What is the name of the process by which the sperm cell penetrates the egg cell membrane during fertilization?

A) Acrosome reaction

B) Capacitation

C) Zona reaction

D) Blastulation

Answer: A) Acrosome reaction

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ENTRANCE EXAM

What is the name of the structure that develops from the follicle after ovulation and produces hormones to prepare the uterus for pregnancy?

- A) Corpus luteum
- B) Corpus callosum
- C) Corpus cavernosum
- D) Corpus albicans

Answer: A) Corpus luteum

Which of the following is a method of contraception that involves tracking a woman's menstrual cycle to determine when she is most fertile?

- A) Barrier methods
- B) Hormonal methods
- C) Behavioral methods
- D) Sterilization

Answer: C) Behavioral methods

What is the name of the hormone that stimulates the growth of the uterine lining during the menstrual cycle?

- A) Estrogen
- B) Progesterone
- C) Follicle-stimulating hormone

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ENTRANCE EXAM

D) Luteinizing hormone

Answer: A) Estrogen

What is the name of the tube that carries the egg from the ovary to the uterus?

A) Cervix

B) Fallopian tube

C) Ovary

D) Vagina

Answer: B) Fallopian tube

Which of the following is a method of contraception that involves inserting a small, T-shaped device into the uterus?

A) Condom

B) Diaphragm

C) Intrauterine device (IUD)

D) Cervical cap

Answer: C) Intrauterine device (IUD)

What is the name of the process by which the sperm and egg cells fuse together to form a zygote?

A) Ovulation

B) Fertilization

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C) Implantation

D) Menstruation

Answer: B) Fertilization

Which of the following is a hormone produced by the placenta during pregnancy?

A) Estrogen

B) Progesterone

C) Human chorionic gonadotropin (hCG)

D) Follicle-stimulating hormone

Answer: C) Human chorionic gonadotropin (hCG)

What is the name of the structure that carries urine and semen out of the male body?

A) Vas deferens

B) Urethra

C) Epididymis

D) Seminal vesicle

Answer: B) Urethra

Which of the following is a sexually transmitted infection caused by a parasite?

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A) Human papillomavirus (HPV)

B) Gonorrhea

C) Trichomoniasis

D) Syphilis

Answer: C) Trichomoniasis

What is the name of the hormone that causes the uterine lining to thicken during the menstrual cycle?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: B) Progesterone

Which of the following is a method of assisted reproductive technology (ART) that involves placing sperm and egg cells in a petri dish to fertilize?

A) In vitro fertilization (IVF)

B) Intracytoplasmic sperm injection (ICSI)

C) Donor insemination

D) Gamete intrafallopian transfer (GIFT)

Answer: A) In vitro fertilization (IVF)

Which of the following is a method of contraception that involves using a small, flexible cup to cover the cervix and prevent sperm from entering the uterus?

- A) Condom
- B) Diaphragm
- C) Intrauterine device (IUD)
- D) Cervical cap

Answer: D) Cervical cap

What is the name of the hormone that stimulates contractions during labor and delivery?

- A) Estrogen
- B) Progesterone
- C) Oxytocin
- D) Prolactin

Answer: C) Oxytocin

What is the name of the process by which sperm cells are produced in the testes?

- A) Ovulation
- B) Fertilization
- C) Spermatogenesis

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ENTRANCE EXAM

D) Meiosis

Answer: C) Spermatogenesis

Which of the following is a hormone produced by the ovaries during the menstrual cycle?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: A) Estrogen

What is the name of the process by which the fertilized egg attaches to the wall of the uterus?

A) Ovulation

B) Fertilization

C) Implantation

D) Menstruation

Answer: C) Implantation

Which of the following is a sexually transmitted infection caused by a virus?

A) Chlamydia

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B) Syphilis

C) Herpes

D) Trichomoniasis

Answer: C) Herpes

What is the name of the hormone that stimulates the development of the ovarian follicle?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: C) Follicle-stimulating hormone

Which of the following is a method of assisted reproductive technology (ART) that involves injecting a single sperm cell directly into an egg cell?

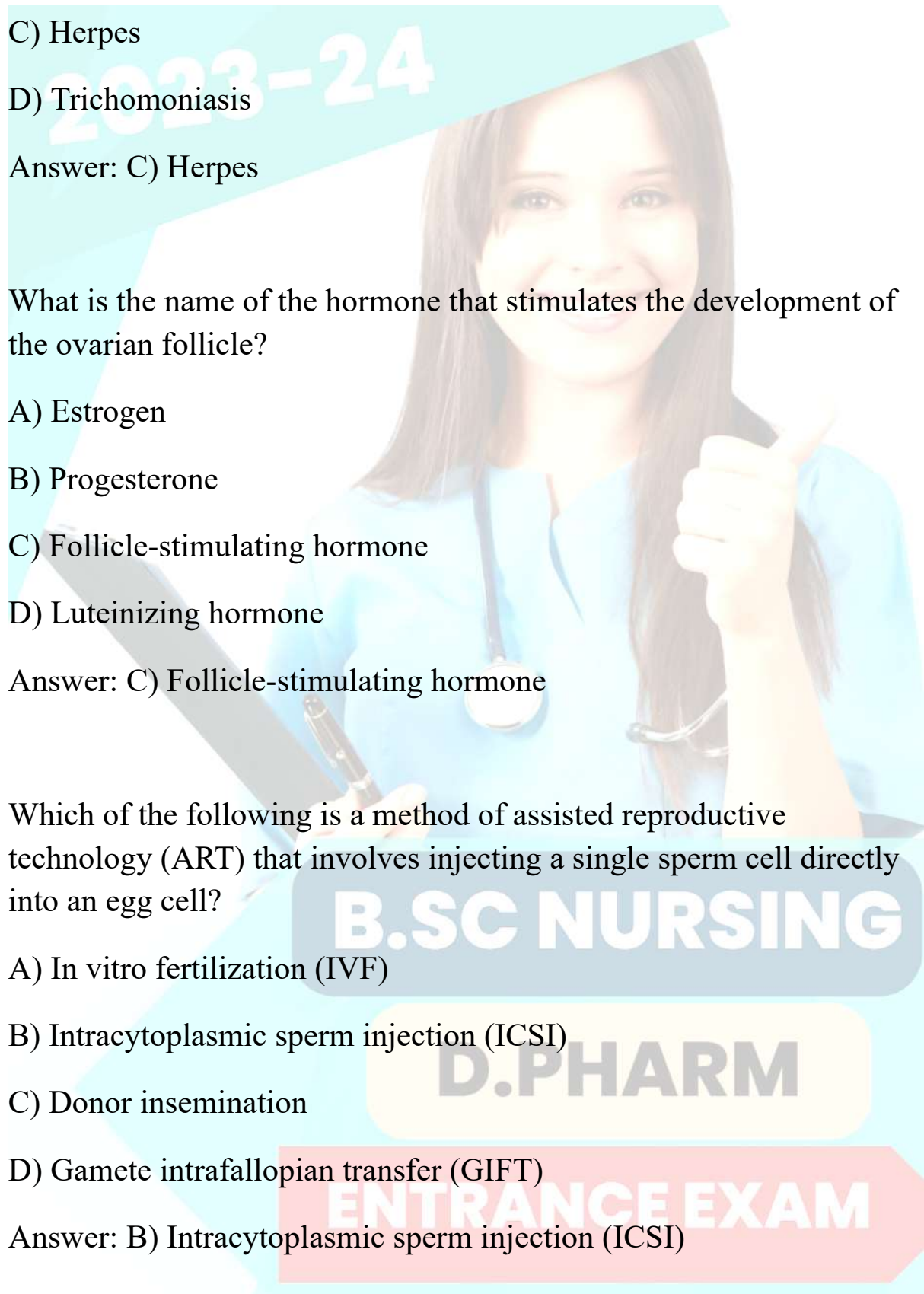
A) In vitro fertilization (IVF)

B) Intracytoplasmic sperm injection (ICSI)

C) Donor insemination

D) Gamete intrafallopian transfer (GIFT)

Answer: B) Intracytoplasmic sperm injection (ICSI)



What is the name of the hormone that triggers the start of menstruation?

- A) Estrogen
- B) Progesterone
- C) Follicle-stimulating hormone
- D) Luteinizing hormone

Answer: B) Progesterone

Which of the following is a method of contraception that involves using a barrier method to prevent sperm from entering the uterus?

- A) Condom
- B) Diaphragm
- C) Intrauterine device (IUD)
- D) Cervical cap

Answer: A) Condom

What is the name of the hormone that stimulates milk production in the mammary glands?

- A) Estrogen
- B) Progesterone
- C) Oxytocin
- D) Prolactin

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Answer: D) Prolactin

Which of the following is a method of contraception that involves taking a combination of estrogen and progesterone hormones to prevent ovulation?

- A) Condom
- B) Diaphragm
- C) Oral contraceptive pill
- D) Cervical cap

Answer: C) Oral contraceptive pill

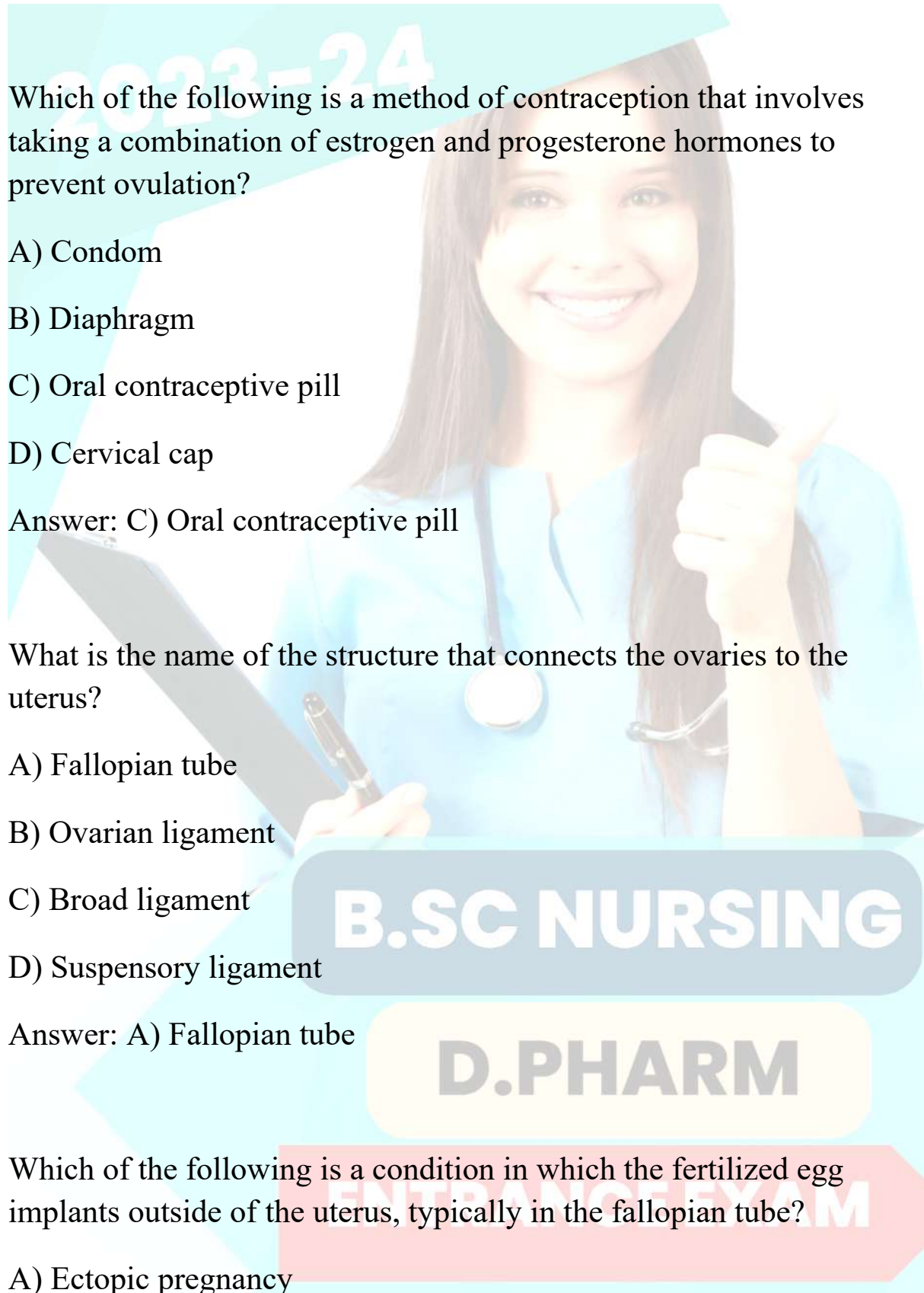
What is the name of the structure that connects the ovaries to the uterus?

- A) Fallopian tube
- B) Ovarian ligament
- C) Broad ligament
- D) Suspensory ligament

Answer: A) Fallopian tube

Which of the following is a condition in which the fertilized egg implants outside of the uterus, typically in the fallopian tube?

- A) Ectopic pregnancy



B) Endometriosis

C) Polycystic ovary syndrome

D) Pelvic inflammatory disease

Answer: A) Ectopic pregnancy

What is the name of the hormone that stimulates uterine contractions during childbirth?

A) Estrogen

B) Progesterone

C) Oxytocin

D) Luteinizing hormone

Answer: C) Oxytocin

Which of the following is a condition in which the prostate gland becomes enlarged and interferes with urination?

A) Prostate cancer

B) Prostate hypertrophy

C) Testicular cancer

D) Testicular torsion

Answer: B) Prostate hypertrophy

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ENTRANCE EXAM

What is the name of the structure that surrounds and protects the testes?

- A) Epididymis
- B) Vas deferens
- C) Seminiferous tubule
- D) Scrotum

Answer: D) Scrotum

Which of the following is a sexually transmitted infection caused by a bacterium?

- A) Gonorrhea
- B) Herpes
- C) Human papillomavirus (HPV)
- D) Human immunodeficiency virus (HIV)

Answer: A) Gonorrhea

What is the name of the hormone that stimulates the production of milk-ejecting reflex during breastfeeding?

- A) Estrogen
- B) Progesterone
- C) Oxytocin
- D) Prolactin

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Answer: C) Oxytocin

Which of the following is a method of assisted reproductive technology (ART) that involves transferring fertilized eggs directly into the uterus?

- A) In vitro fertilization (IVF)
- B) Intracytoplasmic sperm injection (ICSI)
- C) Donor insemination
- D) Gamete intrafallopian transfer (GIFT)

Answer: A) In vitro fertilization (IVF)

What is the name of the hormone that regulates the production of testosterone in the testes?

- A) Estrogen
- B) Progesterone
- C) Follicle-stimulating hormone
- D) Luteinizing hormone

Answer: D) Luteinizing hormone

Which of the following is a method of contraception that involves using a small, flexible device that is inserted into the uterus to prevent pregnancy?

- A) Condom

B) Diaphragm

C) Intrauterine device (IUD)

D) Cervical cap

Answer: C) Intrauterine device (IUD)

What is the name of the process by which sperm cells are produced in the testes?

A) Oogenesis

B) Spermatogenesis

C) Fertilization

D) Implantation

Answer: B) Spermatogenesis

Which of the following is a hormone produced by the ovaries that regulates the menstrual cycle?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: A) Estrogen

What is the name of the structure that produces and secretes semen?

A) Testis

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B) Epididymis

C) Prostate gland

D) Seminal vesicle

Answer: C) Prostate gland

Which of the following is a method of contraception that involves taking a pill containing synthetic hormones to prevent pregnancy?

A) Condom

B) Diaphragm

C) Birth control pill

D) Cervical cap

Answer: C) Birth control pill

What is the name of the gland located below the bladder in males that produces a fluid that helps to nourish and transport sperm?

A) Testis

B) Epididymis

C) Prostate gland

D) Seminal vesicle

Answer: D) Seminal vesicle

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ENTRANCE EXAM

Which of the following is a condition in which the tissues lining the uterus grow outside of the uterus, causing pain and discomfort?

- A) Ectopic pregnancy
- B) Endometriosis
- C) Polycystic ovary syndrome
- D) Pelvic inflammatory disease

Answer: B) Endometriosis

What is the name of the process by which the ovum is released from the ovary?

- A) Oogenesis
- B) Menstruation
- C) Ovulation
- D) Implantation

Answer: C) Ovulation

Which of the following is a method of contraception that involves using a barrier to prevent sperm from reaching the egg?

- A) Condom
- B) Birth control pill
- C) Intrauterine device (IUD)
- D) Fertility awareness-based method

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ENTRANCE EXAM

Answer: A) Condom

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What is the name of the hormone that prepares the uterus for implantation of a fertilized egg?

- A) Estrogen
- B) Progesterone
- C) Follicle-stimulating hormone
- D) Luteinizing hormone

Answer: B) Progesterone

Which of the following is a condition in which the testicle twists, cutting off its own blood supply and causing severe pain?

- A) Testicular cancer
- B) Testicular hypertrophy
- C) Testicular torsion
- D) Prostate cancer

Answer: C) Testicular torsion

Which of the following is a structure that connects the ovaries to the uterus and through which the egg travels?

- A) Vagina
- B) Fallopian tube
- C) Cervix

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ENTRANCE EXAM

D) Uterus

Answer: B) Fallopian tube

What is the name of the hormone that stimulates the growth and development of ovarian follicles?

A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: C) Follicle-stimulating hormone

Which of the following is a condition in which the uterine lining grows into the muscular wall of the uterus, causing heavy menstrual bleeding and pain?

A) Endometriosis

B) Fibroids

C) Ovarian cysts

D) Polyps

Answer: B) Fibroids

What is the name of the process by which a fertilized egg implants itself in the wall of the uterus?

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ENTRANCE EXAM

A) Oogenesis

B) Menstruation

C) Ovulation

D) Implantation

Answer: D) Implantation

Which of the following is a method of contraception that involves inserting a small, T-shaped device into the uterus to prevent pregnancy?

A) Condom

B) Diaphragm

C) Birth control pill

D) Intrauterine device (IUD)

Answer: D) Intrauterine device (IUD)

What is the name of the hormone that triggers the release of an egg from the ovary during ovulation?

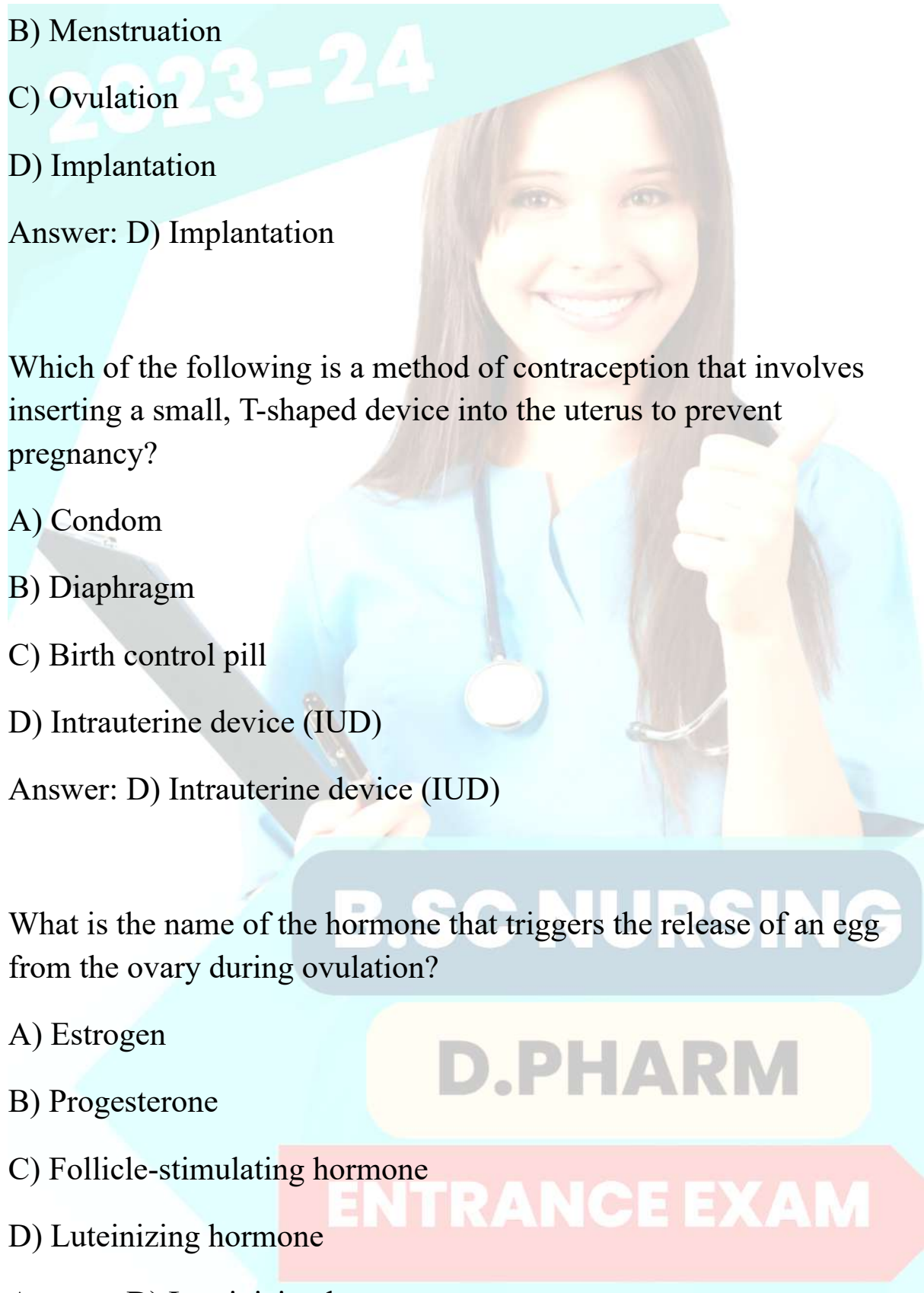
A) Estrogen

B) Progesterone

C) Follicle-stimulating hormone

D) Luteinizing hormone

Answer: D) Luteinizing hormone



Which of the following is a condition in which the fallopian tubes are blocked, preventing fertilization from occurring?

- A) Endometriosis
- B) Fibroids
- C) Polycystic ovary syndrome
- D) Tubal infertility

Answer: D) Tubal infertility

What is the name of the structure that surrounds and protects the developing embryo during pregnancy?

- A) Placenta
- B) Amniotic sac
- C) Uterus
- D) Cervix

Answer: B) Amniotic sac

Which of the following is a method of contraception that involves monitoring the woman's menstrual cycle and avoiding intercourse during the fertile period?

- A) Condom
- B) Birth control pill

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ENTRANCE EXAM

C) Intrauterine device (IUD)

D) Fertility awareness-based method

Answer: D) Fertility awareness-based method

What is the name of the hormone that is produced by the placenta and helps to maintain the pregnancy?

A) Estrogen

B) Progesterone

C) Human chorionic gonadotropin

D) Luteinizing hormone

Answer: C) Human chorionic gonadotropin

What is the name of the structure that produces testosterone in males?

A) Seminal vesicles

B) Epididymis

C) Testes

D) Prostate gland

Answer: C) Testes

Which of the following is a condition in which the testes fail to descend into the scrotum?

A) Testicular cancer

B) Prostate cancer

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C) Cryptorchidism

D) Varicocele

Answer: C) Cryptorchidism

What is the name of the hormone that is responsible for the development of male secondary sexual characteristics?

A) Estrogen

B) Progesterone

C) Testosterone

D) Follicle-stimulating hormone

Answer: C) Testosterone

Which of the following is a surgical procedure that involves cutting the vas deferens to prevent the release of sperm during ejaculation?

A) Vasectomy

B) Circumcision

C) Orchiectomy

D) Prostatectomy

Answer: A) Vasectomy

What is the name of the condition in which the prostate gland becomes enlarged and causes urinary problems in older men?

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A) Prostate cancer

B) Prostatitis

C) Benign prostatic hyperplasia

D) Testicular cancer

Answer: C) Benign prostatic hyperplasia

What is the name of the fluid that carries sperm out of the penis during ejaculation?

A) Seminal fluid

B) Prostatic fluid

C) Bulbourethral fluid

D) Ejaculatory fluid

Answer: A) Seminal fluid

Which of the following is a sexually transmitted infection caused by a bacterium and can cause pelvic inflammatory disease and infertility in women?

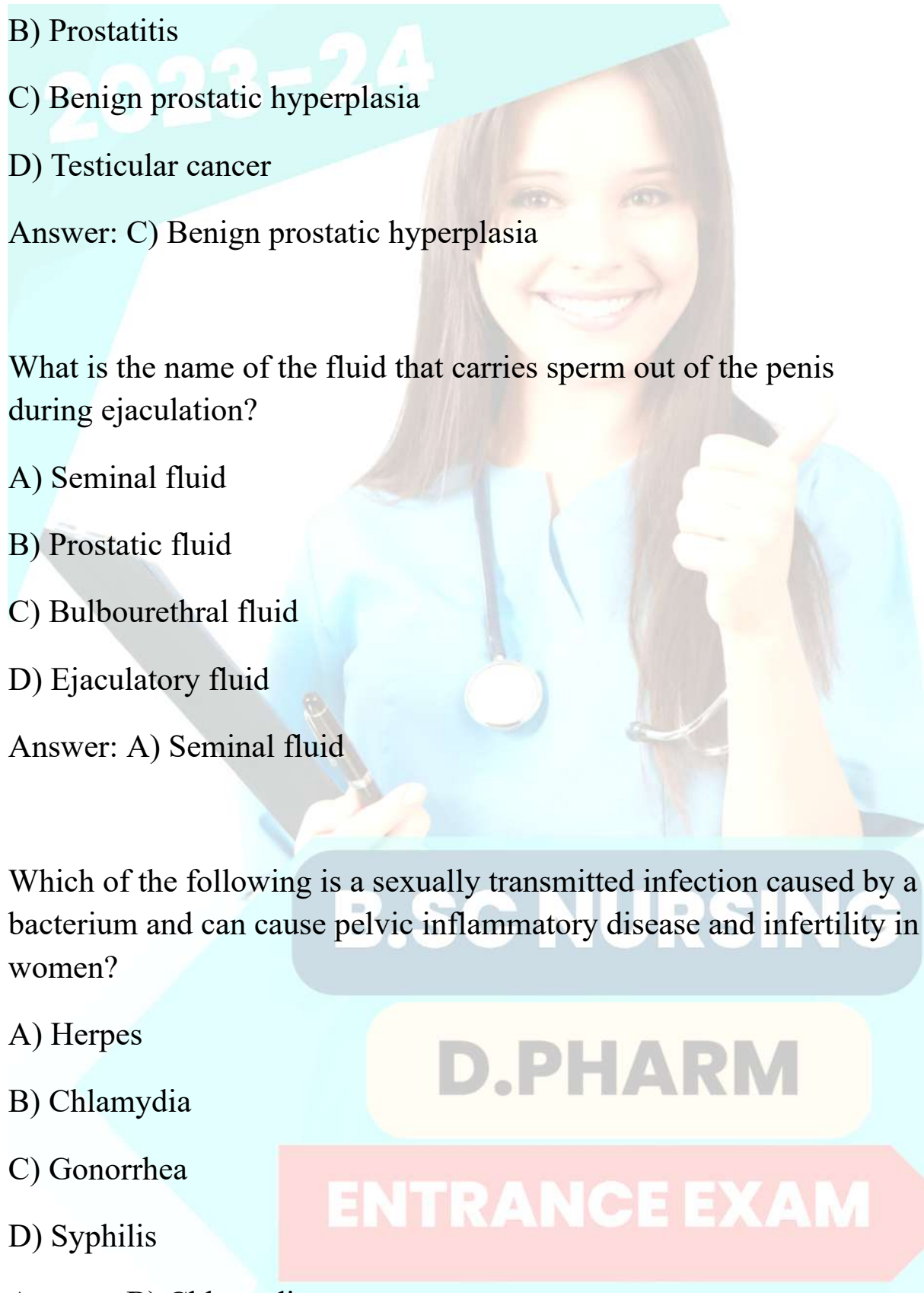
A) Herpes

B) Chlamydia

C) Gonorrhea

D) Syphilis

Answer: B) Chlamydia



What is the name of the condition in which the lining of the urethra becomes inflamed and causes painful urination in men?

- A) Prostatitis
- B) Urethritis
- C) Epididymitis
- D) Orchitis

Answer: B) Urethritis

Which of the following is a condition in which there is an abnormal curvature of the penis during an erection, which can cause pain and difficulty with intercourse?

- A) Peyronie's disease
- B) Priapism
- C) Erectile dysfunction
- D) Phimosiis

Answer: A) Peyronie's disease

What is the name of the condition in which there is a complete absence of sperm in the ejaculate?

- A) Azoospermia
- B) Oligospermia

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C) Asthenospermia

D) Teratospermia

Answer: A) Azoospermia

Who is known as the father of evolution?

A) Charles Darwin

B) Gregor Mendel

C) Louis Pasteur

D) Alfred Russel Wallace

Answer: A) Charles Darwin

What is the name of the process by which new species arise from existing species over time?

A) Evolution

B) Adaptation

C) Natural selection

D) Genetic drift

Answer: A) Evolution

What is the name of the process by which traits that improve an organism's chance of survival are passed down to future generations?

A) Natural selection

B) Artificial selection

C) Sexual selection

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D) Genetic drift

Answer: A) Natural selection

Which of the following is a type of genetic mutation that results in the duplication of genes?

A) Inversion

B) Deletion

C) Duplication

D) Translocation

Answer: C) Duplication

What is the name of the process by which species evolve rapidly into many new species to fill available niches in an ecosystem?

A) Adaptive radiation

B) Coevolution

C) Divergent evolution

D) Convergent evolution

Answer: A) Adaptive radiation

Which of the following is an example of a vestigial structure?

A) The wings of a bird

B) The tailbone in humans

C) The eyes of a cave-dwelling fish

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D) The flippers of a whale

Answer: B) The tailbone in humans

What is the name of the phenomenon where organisms that are better adapted to their environment are more likely to survive and reproduce?

A) Natural selection

B) Genetic drift

C) Mutation

D) Migration

Answer: A) Natural selection

What is the name of the process by which new species are formed when a population becomes geographically isolated from other populations of the same species?

A) Convergent evolution

B) Divergent evolution

C) Adaptive radiation

D) Allopatric speciation

Answer: D) Allopatric speciation

Which of the following is an example of an adaptation?

A) A giraffe's long neck

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B) A cheetah's speed

C) A lion's roar

D) A butterfly's bright colors

Answer: A) A giraffe's long neck

What is the name of the process by which organisms with different genetic traits mate with each other and produce offspring with combinations of those traits?

A) Mutation

B) Recombination

C) Genetic drift

D) Inbreeding

Answer: B) Recombination

What is the name of the process by which individuals move from one population to another and bring their genes with them?

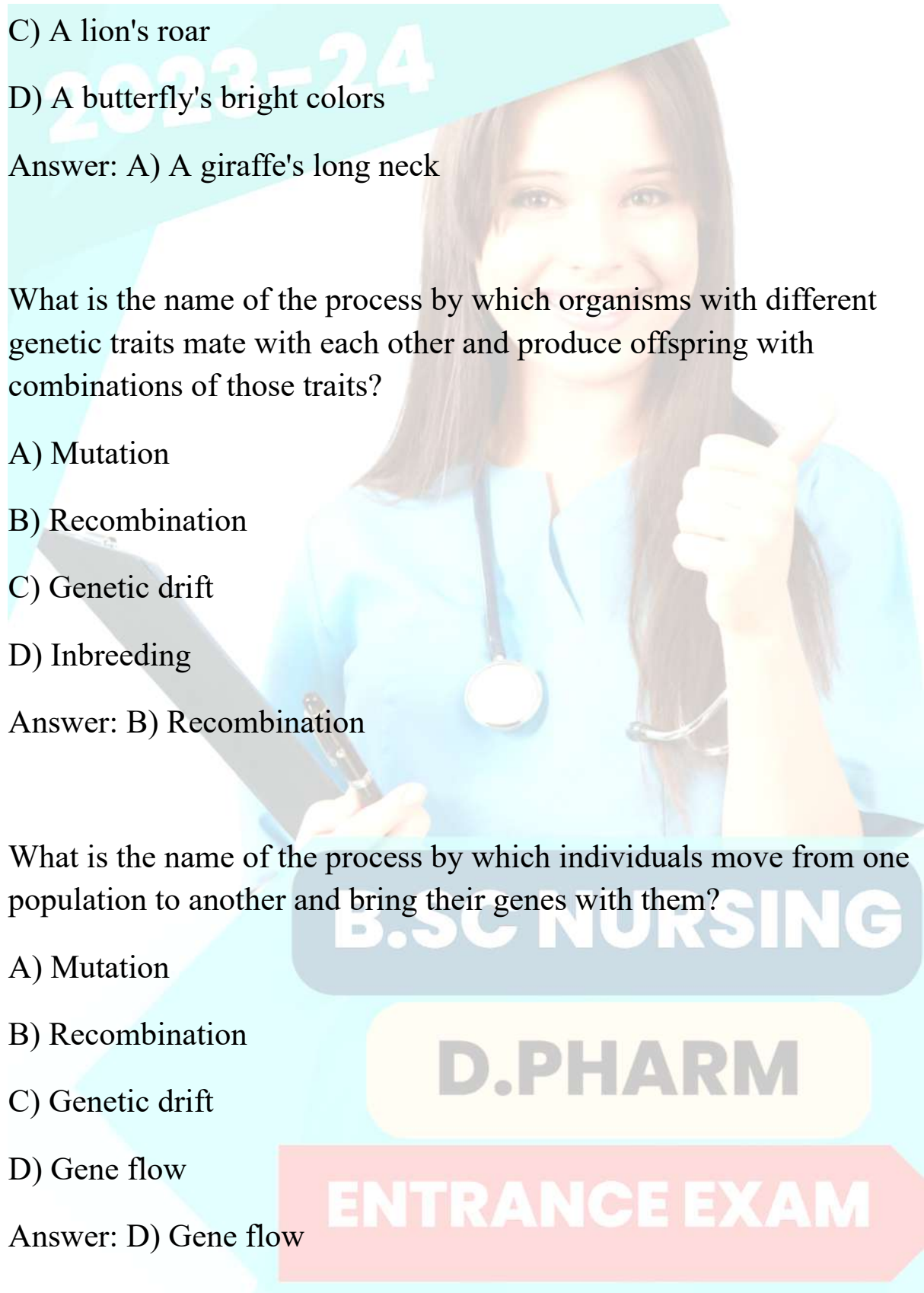
A) Mutation

B) Recombination

C) Genetic drift

D) Gene flow

Answer: D) Gene flow



Which of the following is an example of divergent evolution?

- A) The wings of a bird and the wings of a bat
- B) The wings of a bird and the wings of a butterfly
- C) The fins of a fish and the fins of a dolphin
- D) The eyes of a human and the eyes of a squid

Answer: A) The wings of a bird and the wings of a bat

What is the name of the process by which certain traits become more or less common in a population over time due to chance events?

- A) Natural selection
- B) Genetic drift
- C) Mutation
- D) Migration

Answer: B) Genetic drift

Which of the following is an example of coevolution?

- A) A predator and its prey evolving in response to each other
- B) Two species of birds evolving similar beaks because they feed on the same type of food
- C) A species of plant evolving to produce nectar to attract bees
- D) Two species of fish evolving similar coloring to blend in with their surroundings

Answer: A) A predator and its prey evolving in response to each other

What is the name of the process by which humans have selectively bred plants and animals to produce desirable traits?

- A) Natural selection
- B) Genetic drift
- C) Artificial selection
- D) Gene flow

Answer: C) Artificial selection

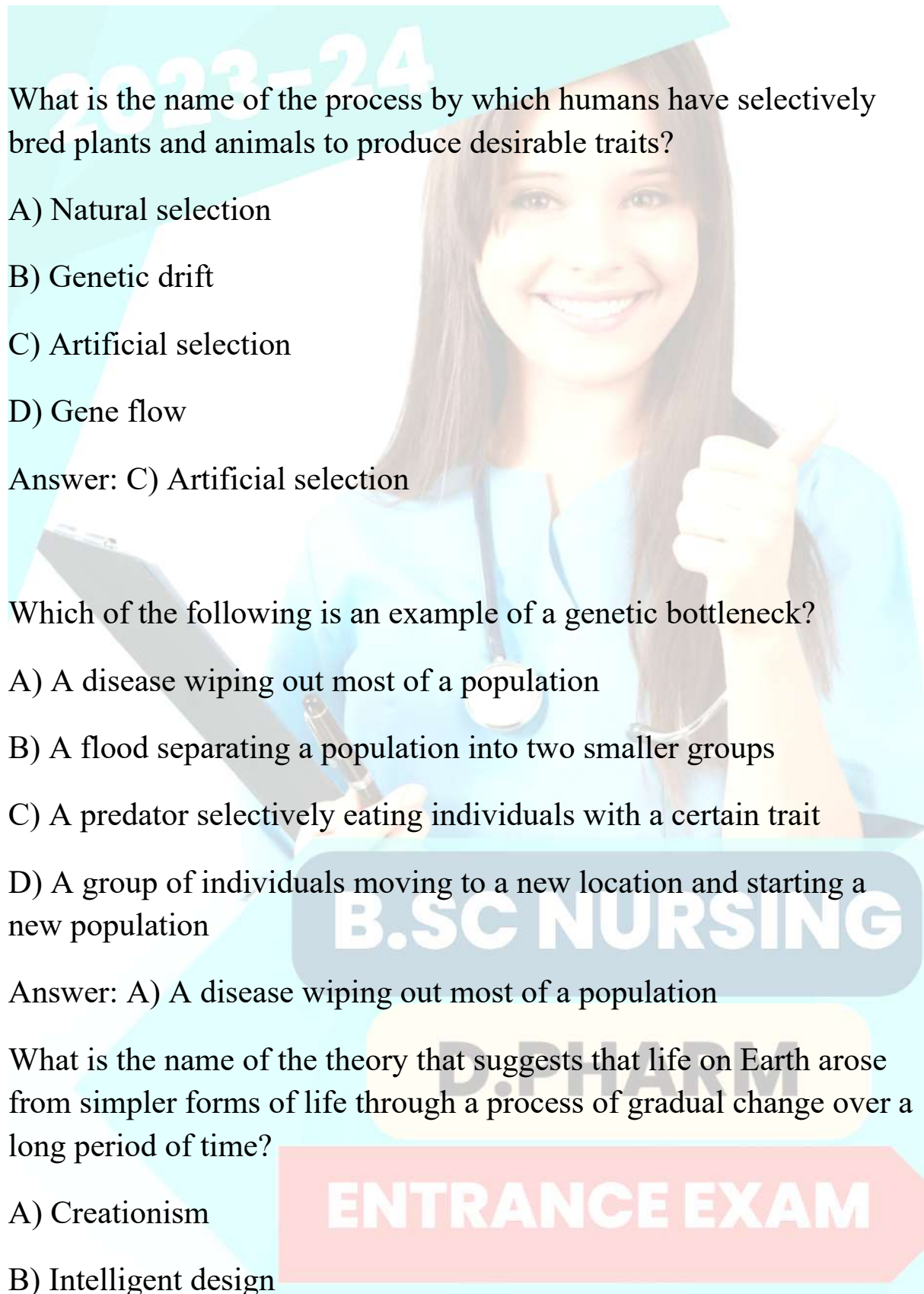
Which of the following is an example of a genetic bottleneck?

- A) A disease wiping out most of a population
- B) A flood separating a population into two smaller groups
- C) A predator selectively eating individuals with a certain trait
- D) A group of individuals moving to a new location and starting a new population

Answer: A) A disease wiping out most of a population

What is the name of the theory that suggests that life on Earth arose from simpler forms of life through a process of gradual change over a long period of time?

- A) Creationism
- B) Intelligent design



C) Evolution

D) Catastrophism

Answer: C) Evolution

Which of the following is an example of convergent evolution?

A) The wings of a bird and the wings of a bat

B) The wings of a bird and the wings of a butterfly

C) The fins of a fish and the fins of a dolphin

D) The eyes of a human and the eyes of a squid

Answer: C) The fins of a fish and the fins of a dolphin

What is the name of the process by which species evolve to become more complex over time?

A) Natural selection

B) Genetic drift

C) Mutation

D) Complexity increase

Answer: D) Complexity increase

Which of the following is an example of vestigial structures in humans?

A) The human appendix

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B) The human heart

C) The human brain

D) The human liver

Answer: A) The human appendix

What is the name of the process by which new species are formed when a population becomes isolated within the same geographic area?

A) Sympatric speciation

B) Allopatric speciation

C) Adaptive radiation

D) Convergent evolution

Answer: A) Sympatric speciation

Which of the following is an example of a homologous structure?

A) The wings of a bird and the wings of a butterfly

B) The wings of a bird and the fins of a fish

C) The arms of a human and the arms of a bat

D) The eyes of a human and the eyes of a squid

Answer: C) The arms of a human and the arms of a bat

What is the name of the theory that suggests that evolution occurs through the inheritance of acquired characteristics?

A) Natural selection

B) Lamarckism

C) Darwinism

D) Punctuated equilibrium

Answer: B) Lamarckism

Which of the following is an example of a founder effect?

A) A disease wiping out most of a population

B) A flood separating a population into two smaller groups

C) A predator selectively eating individuals with a certain trait

D) A group of individuals starting a new population in a new location

Answer: D) A group of individuals starting a new population in a new location

What is the name of the process by which species evolve rapidly into many new species to fill available niches?

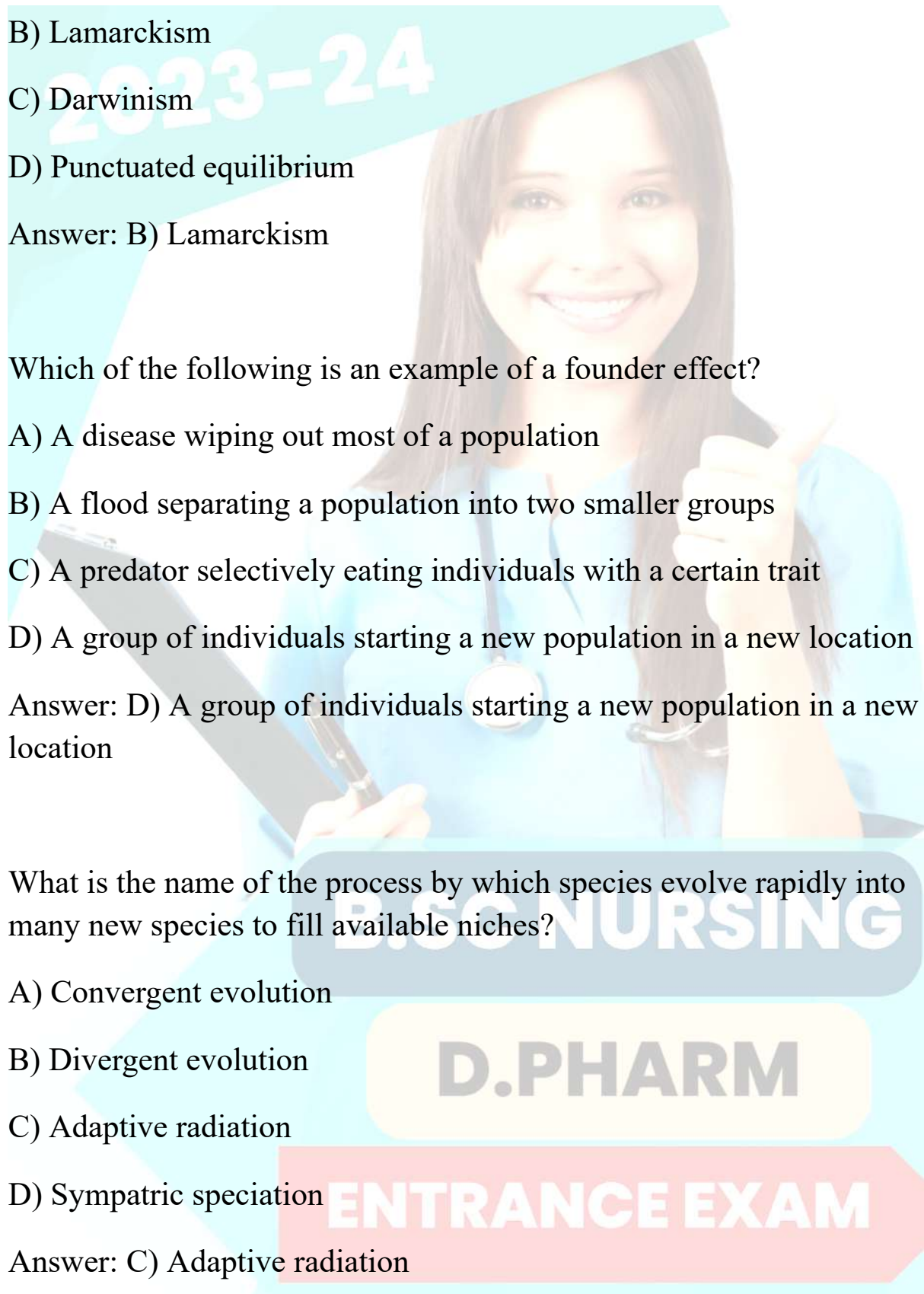
A) Convergent evolution

B) Divergent evolution

C) Adaptive radiation

D) Sympatric speciation

Answer: C) Adaptive radiation



Which of the following is an example of a biogeographic pattern that supports the theory of evolution?

- A) The distribution of penguins in Antarctica
- B) The distribution of kangaroos in Australia
- C) The distribution of polar bears in the Arctic
- D) The distribution of zebras in Africa

Answer: B) The distribution of kangaroos in Australia

What is the name of the process by which a single species evolves into multiple species over time?

- A) Sympatric speciation
- B) Allopatric speciation
- C) Adaptive radiation
- D) Convergent evolution

Answer: C) Adaptive radiation

What is the name of the mechanism by which random changes in allele frequencies occur in small populations?

- A) Natural selection
- B) Genetic drift
- C) Mutation
- D) Gene flow

Answer: B) Genetic drift

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What is the name of the mechanism by which individuals with certain traits are more likely to survive and reproduce?

- A) Natural selection
- B) Genetic drift
- C) Mutation
- D) Gene flow

Answer: A) Natural selection

What is the name of the type of immunity that is acquired through exposure to a pathogen or vaccine?

- A) Innate immunity
- B) Passive immunity
- C) Adaptive immunity
- D) Acquired immunity

Answer: D) Acquired immunity

Which of the following is a common symptom of a viral infection?

- A) Inflammation
- B) Fever
- C) Pain
- D) All of the above

Answer: B) Fever

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What is the name of the process by which white blood cells engulf and destroy pathogens?

- A) Phagocytosis
- B) Apoptosis
- C) Mitosis
- D) Meiosis

Answer: A) Phagocytosis

Which of the following is an example of a communicable disease?

- A) Cancer
- B) Heart disease
- C) Diabetes
- D) Influenza

Answer: D) Influenza

What is the name of the type of immunity that is transferred from mother to infant through breast milk or placenta?

- A) Innate immunity
- B) Passive immunity
- C) Adaptive immunity
- D) Acquired immunity

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Answer: B) Passive immunity

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Which of the following is a common symptom of an allergic reaction?

- A) Fever
- B) Coughing
- C) Swelling
- D) Fatigue

Answer: C) Swelling

Which of the following is a common symptom of a bacterial infection?

- A) Rash
- B) Vomiting
- C) Diarrhea
- D) All of the above

Answer: D) All of the above

Which of the following is a common method of transmission for HIV?

- A) Mosquito bites
- B) Sharing needles
- C) Casual contact

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D) Inhaling airborne particles

Answer: B) Sharing needles

Which of the following is a method of controlling the spread of infectious diseases?

A) Vaccination

B) Quarantine

C) Hand washing

D) All of the above

Answer: D) All of the above

Which of the following is an example of a non-communicable disease?

A) Tuberculosis

B) Malaria

C) Diabetes

D) Measles

Answer: C) Diabetes

What is the name of the pathogen that causes malaria?

A) Bacteria

B) Virus

C) Fungus

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D) Protozoan

Answer: D) Protozoan

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Which of the following is a common symptom of tuberculosis?

- A) Chest pain
- B) Headache
- C) Stomach ache
- D) Joint pain

Answer: A) Chest pain

Which of the following is an example of a vector-borne disease?

- A) Influenza
- B) Malaria
- C) Cancer
- D) Diabetes

Answer: B) Malaria

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Which of the following is a type of cancer that affects blood cells?

- A) Leukemia
- B) Sarcoma
- C) Carcinoma

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D) Melanoma

Answer: A) Leukemia

What is the name of the pathogen that causes COVID-19?

A) Bacteria

B) Virus

C) Fungus

D) Protozoan

Answer: B) Virus

Which of the following is a common symptom of dengue fever?

A) Chest pain

B) Nausea

C) Joint pain

D) All of the above

Answer: D) All of the above

Which of the following is a common method of transmission for the Zika virus?

A) Mosquito bites

B) Sharing needles

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C) Casual contact

D) Inhaling airborne particles

Answer: A) Mosquito bites

Which of the following is a method of treating bacterial infections?

A) Antibiotics

B) Vaccines

C) Antivirals

D) Chemotherapy

Answer: A) Antibiotics

Which of the following is a method of preventing the spread of sexually transmitted infections?

A) Abstinence

B) Condom use

C) Monogamy

D) All of the above

Answer: D) All of the above

Which of the following is a common symptom of a fungal infection?

A) Rash

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B) Fever

C) Joint pain

D) Fatigue

Answer: A) Rash

What is the name of the virus that causes the common cold?

A) Coronavirus

B) Rhinovirus

C) Influenza virus

D) Herpes virus

Answer: B) Rhinovirus

Which of the following is a common symptom of asthma?

A) Chest pain

B) Headache

C) Stomach ache

D) Joint pain

Answer: A) Chest pain

Which of the following is a type of cancer that affects the skin?

A) Leukemia

B) Sarcoma

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C) Carcinoma

D) Melanoma

Answer: D) Melanoma

Which of the following is a common symptom of hepatitis?

A) Abdominal pain

B) Joint pain

C) Muscle pain

D) Headache

Answer: A) Abdominal pain

Which of the following is a common sexually transmitted infection?

A) Influenza

B) Gonorrhea

C) Malaria

D) Tuberculosis

Answer: B) Gonorrhea

Which of the following is a method of preventing the spread of HIV?

A) Condom use

B) Antibiotic use

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C) Monogamy

D) Hand washing

Answer: A) Condom use

Which of the following is a method of treating viral infections?

A) Antibiotics

B) Vaccines

C) Antifungals

D) Chemotherapy

Answer: B) Vaccines

Which of the following is a common symptom of food poisoning?

A) Rash

B) Fever

C) Joint pain

D) Headache

Answer: B) Fever

Which of the following is a type of autoimmune disease?

A) Multiple sclerosis

B) Diabetes

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C) Arthritis

D) All of the above

Answer: D) All of the above

Which of the following is a common symptom of a parasitic infection?

A) Nausea

B) Joint pain

C) Muscle pain

D) Fatigue

Answer: A) Nausea

Which of the following is a common symptom of influenza (the flu)?

A) Stomach ache

B) Headache

C) Joint pain

D) Chest pain

Answer: B) Headache

Which of the following is a type of cancer that affects the blood cells?

A) Leukemia

B) Sarcoma

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C) Carcinoma

D) Melanoma

Answer: A) Leukemia

Which of the following is a method of preventing the spread of tuberculosis (TB)?

A) Condom use

B) Hand washing

C) Vaccination

D) Monogamy

Answer: B) Hand washing

Which of the following is a type of bacterial infection that can be spread through contaminated food or water?

A) Malaria

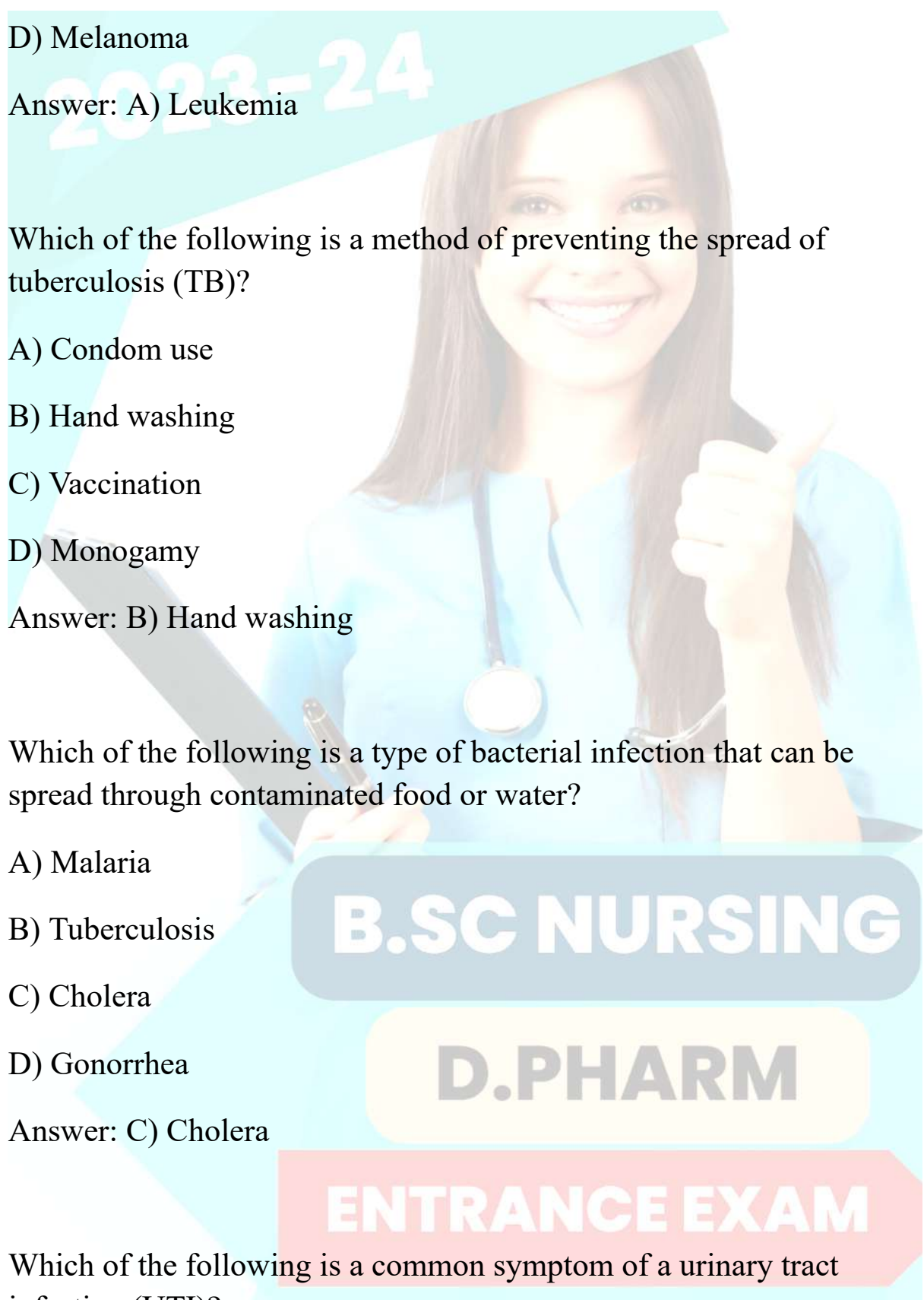
B) Tuberculosis

C) Cholera

D) Gonorrhea

Answer: C) Cholera

Which of the following is a common symptom of a urinary tract infection (UTI)?



A) Joint pain

B) Headache

C) Nausea

D) Painful urination

Answer: D) Painful urination

Which of the following is a method of preventing the spread of malaria?

A) Condom use

B) Hand washing

C) Mosquito control

D) Monogamy

Answer: C) Mosquito control

Which of the following is a method of treating bacterial infections?

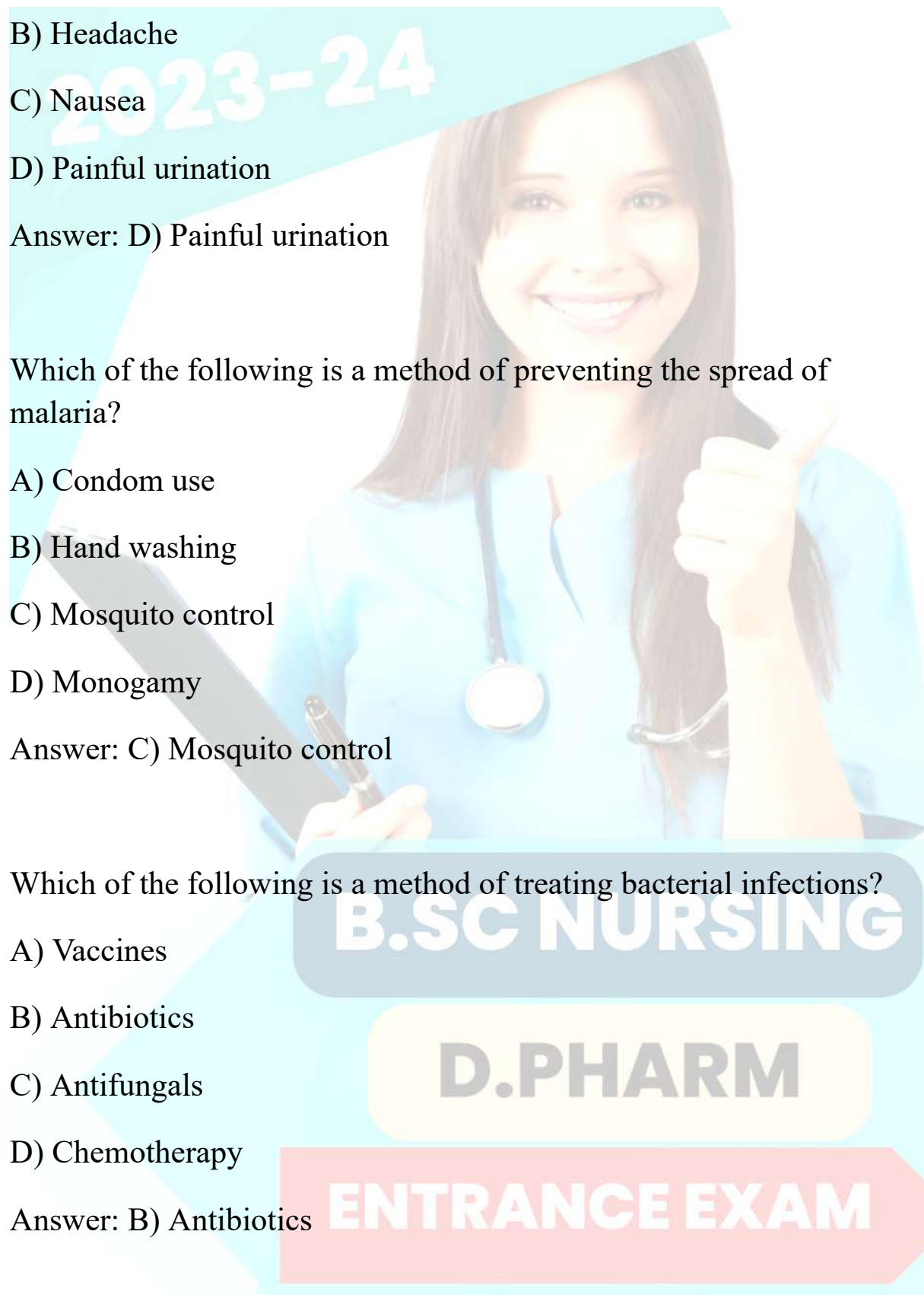
A) Vaccines

B) Antibiotics

C) Antifungals

D) Chemotherapy

Answer: B) Antibiotics



Which of the following is a common symptom of a viral gastroenteritis (stomach flu)?

- A) Joint pain
- B) Headache
- C) Nausea and vomiting
- D) Chest pain

Answer: C) Nausea and vomiting

Which of the following is a type of autoimmune disease that affects the skin?

- A) Multiple sclerosis
- B) Rheumatoid arthritis
- C) Psoriasis
- D) Lupus

Answer: C) Psoriasis

Which of the following is a common symptom of a yeast infection?

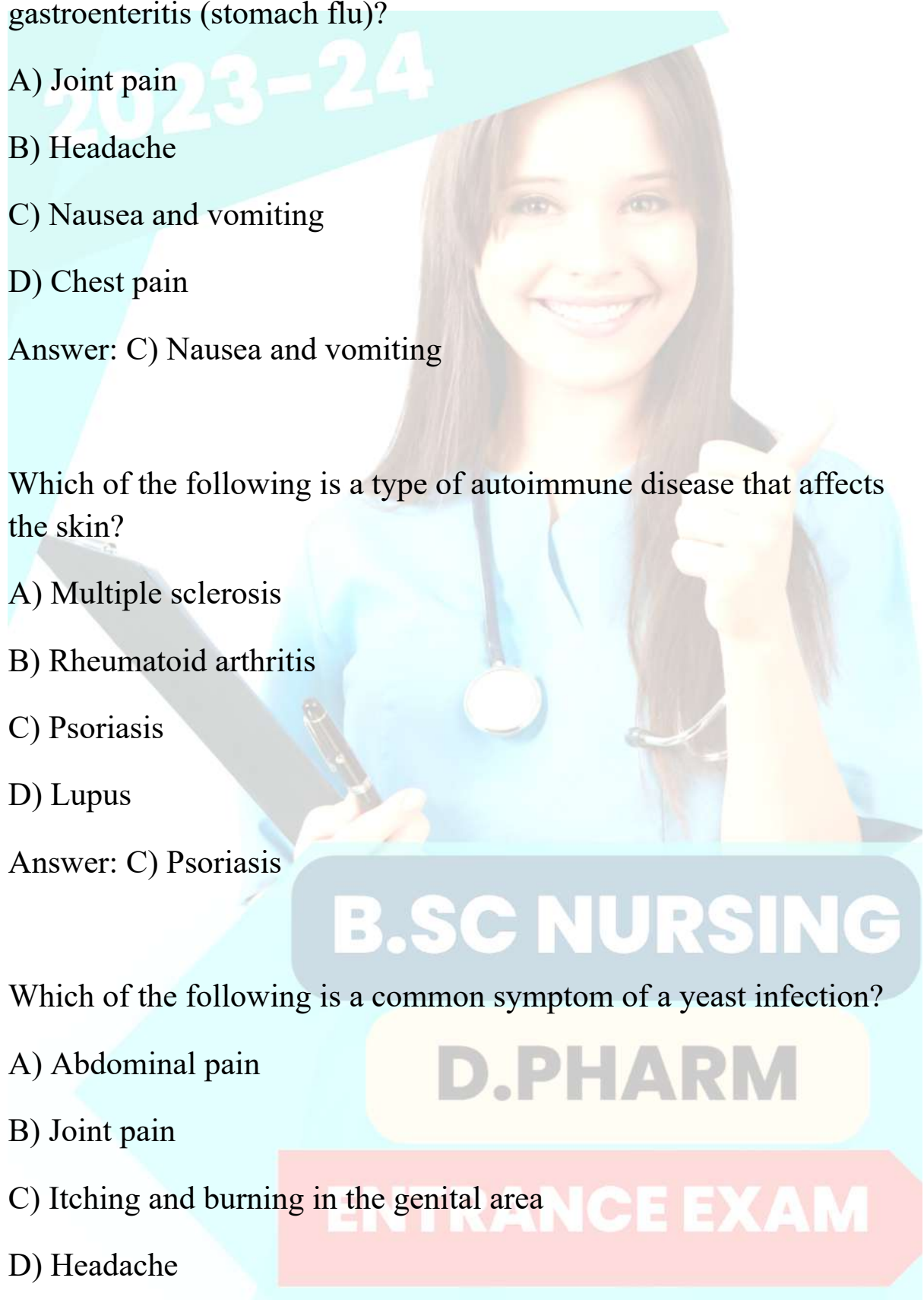
- A) Abdominal pain
- B) Joint pain
- C) Itching and burning in the genital area
- D) Headache

Answer: C) Itching and burning in the genital area

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Which of the following is a common symptom of asthma?

- A) Sore throat
- B) Runny nose
- C) Shortness of breath
- D) Diarrhea

Answer: C) Shortness of breath

Which of the following is a type of cancer that affects the bones?

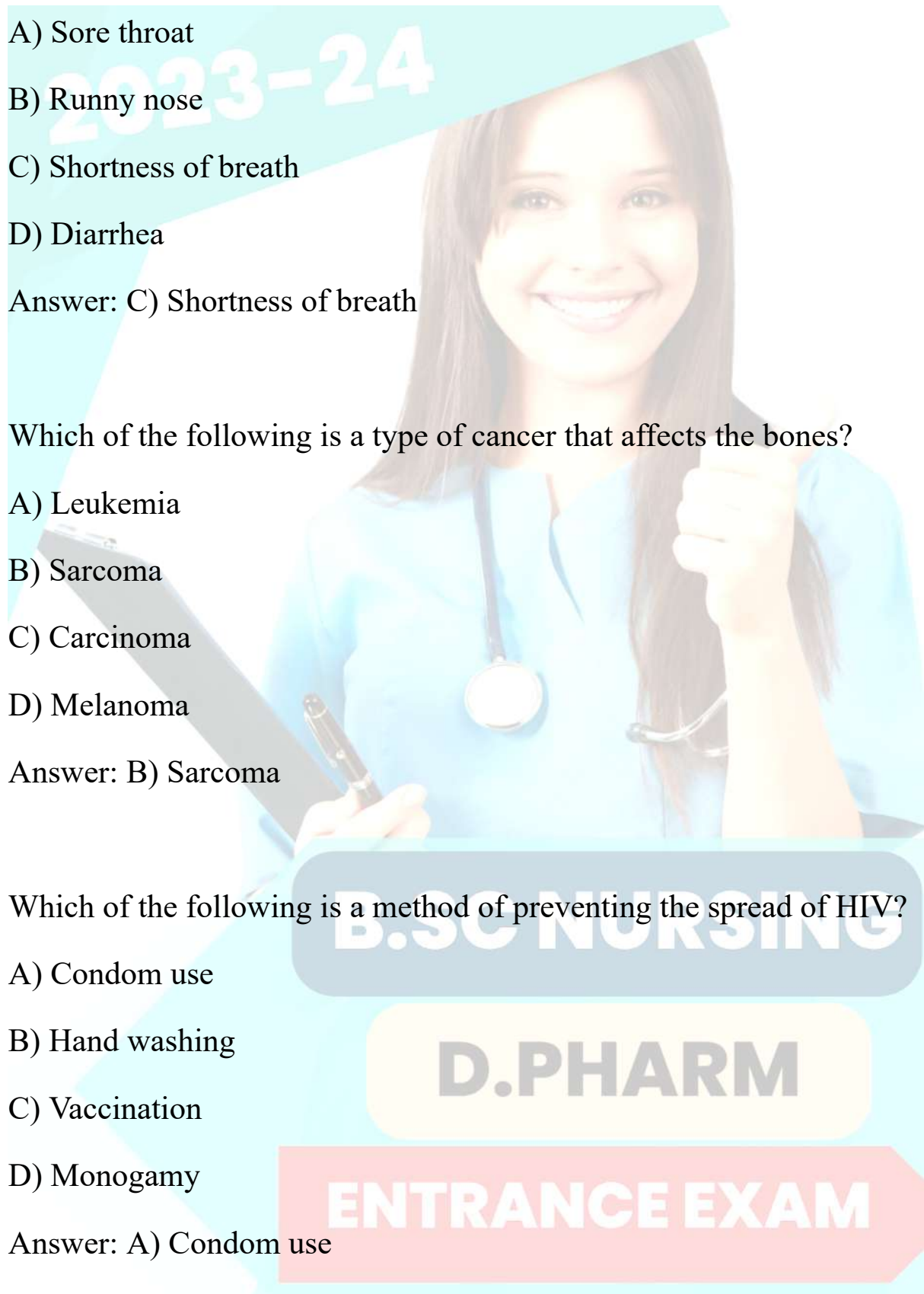
- A) Leukemia
- B) Sarcoma
- C) Carcinoma
- D) Melanoma

Answer: B) Sarcoma

Which of the following is a method of preventing the spread of HIV?

- A) Condom use
- B) Hand washing
- C) Vaccination
- D) Monogamy

Answer: A) Condom use



Which of the following is a type of sexually transmitted infection caused by a bacterium?

- A) Herpes
- B) Gonorrhea
- C) Human papillomavirus (HPV)
- D) Hepatitis B

Answer: B) Gonorrhea

Which of the following is a common symptom of a heart attack?

- A) Sudden, severe headache
- B) Chest pain or discomfort
- C) Joint pain
- D) Diarrhea

Answer: B) Chest pain or discomfort

Which of the following is a method of preventing the spread of the common cold?

- A) Condom use
- B) Hand washing
- C) Vaccination
- D) Monogamy

Answer: B) Hand washing

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Which of the following is a method of treating viral infections?

- A) Vaccines
- B) Antibiotics
- C) Antifungals
- D) Chemotherapy

Answer: A) Vaccines

Which of the following is a type of autoimmune disease that affects the joints?

- A) Multiple sclerosis
- B) Rheumatoid arthritis
- C) Psoriasis
- D) Lupus

Answer: B) Rheumatoid arthritis

Which of the following is a common symptom of a bacterial vaginosis?

- A) Abdominal pain
- B) Joint pain
- C) Vaginal discharge with a strong, fishy odor
- D) Headache

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Answer: C) Vaginal discharge with a strong, fishy odor

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Which of the following is a method of preventing the spread of hepatitis B?

- A) Condom use
- B) Hand washing
- C) Vaccination
- D) Monogamy

Answer: C) Vaccination

Which of the following is a bacterial infection that can be transmitted through contaminated food or water?

- A) Tetanus
- B) Tuberculosis
- C) Salmonella
- D) Malaria

Answer: C) Salmonella

Which of the following is a viral infection that can lead to liver damage and liver cancer?

- A) HIV
- B) Hepatitis B
- C) Gonorrhea

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D) Syphilis

Answer: B) Hepatitis B

Which of the following is a method of preventing the spread of tuberculosis?

- A) Condom use
- B) Hand washing
- C) Vaccination
- D) Monogamy

Answer: C) Vaccination

Which of the following is a type of cancer that affects the lymph nodes and lymphatic system?

- A) Leukemia
- B) Sarcoma
- C) Carcinoma
- D) Lymphoma

Answer: D) Lymphoma

Which of the following is a bacterial infection that can be transmitted through sexual contact?

- A) Chlamydia

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B) Influenza

C) Shingles

D) Chickenpox

Answer: A) Chlamydia

Which of the following is a common symptom of a urinary tract infection?

A) Chest pain

B) Joint pain

C) Pain or burning during urination

D) Headache

Answer: C) Pain or burning during urination

Which of the following is a method of preventing the spread of influenza?

A) Condom use

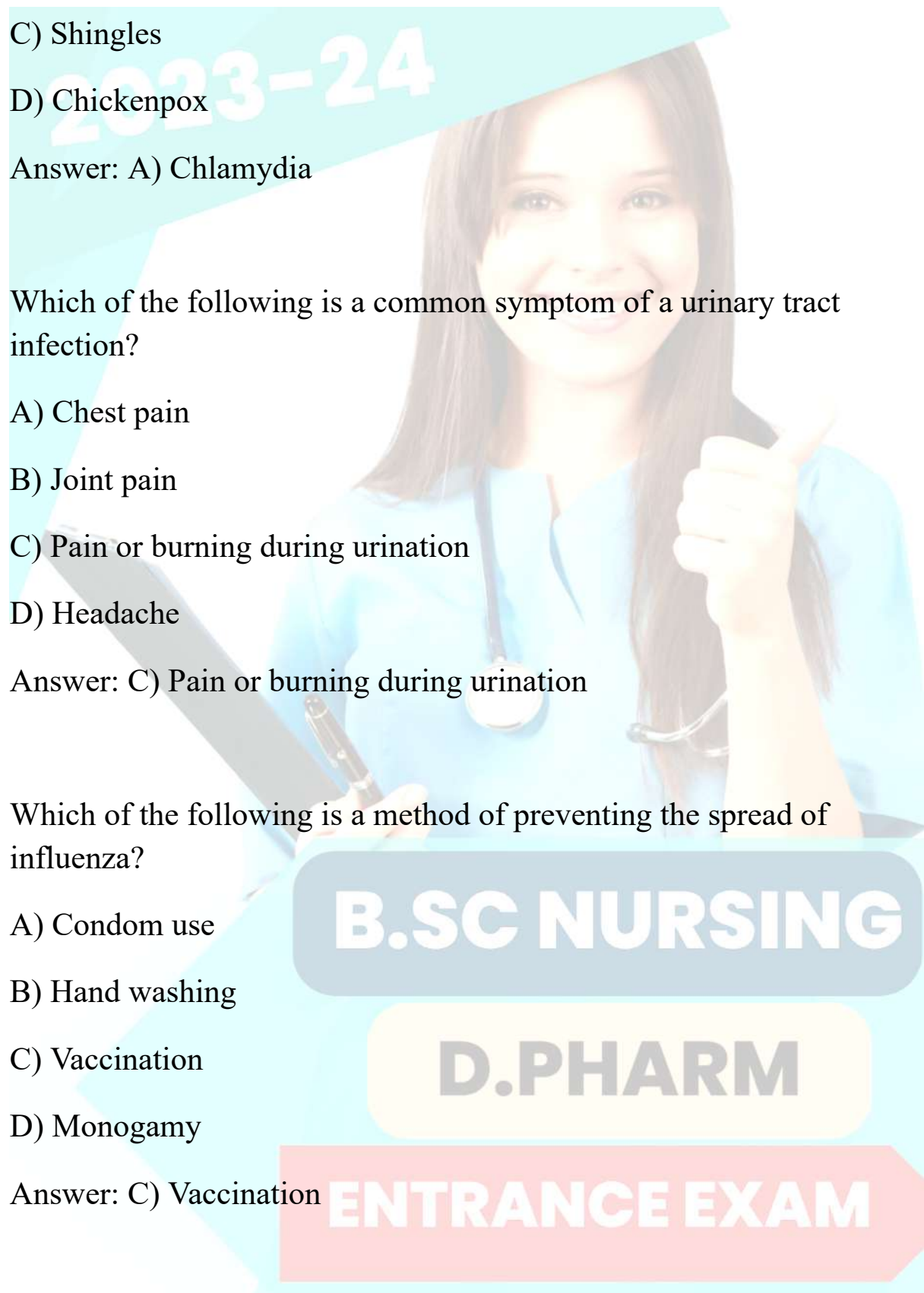
B) Hand washing

C) Vaccination

D) Monogamy

Answer: C) Vaccination

Which of the following is a type of cancer that affects the skin?



A) Leukemia

B) Sarcoma

C) Carcinoma

D) Lymphoma

Answer: C) Carcinoma

Which of the following is a common symptom of a urinary tract infection in men?

A) Pain during ejaculation

B) Testicular pain

C) Penis pain

D) None of the above

Answer: D) None of the above

Which of the following is a viral infection that can lead to cervical cancer in women?

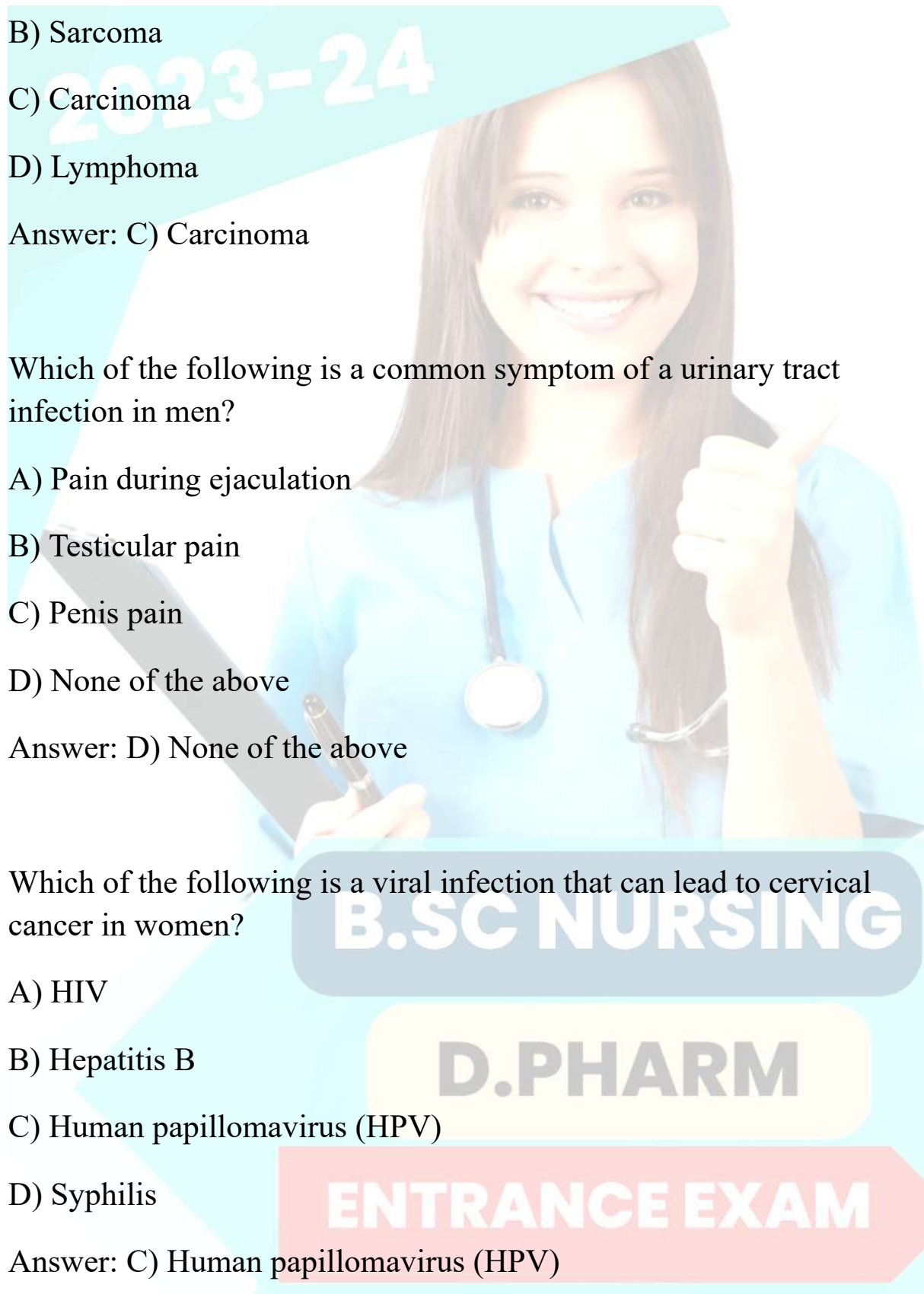
A) HIV

B) Hepatitis B

C) Human papillomavirus (HPV)

D) Syphilis

Answer: C) Human papillomavirus (HPV)



Which of the following diseases is caused by a protozoan parasite and transmitted through the bite of infected female Anopheles mosquitoes?

- A) Malaria
- B) Typhoid
- C) Cholera
- D) Dengue fever

Answer: A) Malaria

Which of the following diseases is caused by a virus and transmitted through the bite of infected Aedes mosquitoes?

- A) Malaria
- B) Typhoid
- C) Cholera
- D) Dengue fever

Answer: D) Dengue fever

Which of the following diseases is caused by a bacterium that is transmitted through the bite of infected ticks?

- A) Lyme disease
- B) Tuberculosis
- C) Hepatitis A

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D) Syphilis

Answer: A) Lyme disease

Which of the following is a type of sexually transmitted infection caused by a bacterium that can lead to pelvic inflammatory disease and infertility if left untreated?

A) Chlamydia

B) HIV

C) Hepatitis B

D) Syphilis

Answer: A) Chlamydia

Which of the following is a type of cancer that affects the blood and bone marrow?

A) Leukemia

B) Sarcoma

C) Carcinoma

D) Lymphoma

Answer: A) Leukemia

Which of the following is a method of preventing the spread of HIV?

A) Condom use

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B) Hand washing

C) Vaccination

D) Monogamy

Answer: A) Condom use

Which of the following is a type of sexually transmitted infection caused by a virus that can lead to genital warts and certain types of cancer?

A) Chlamydia

B) Gonorrhea

C) Human papillomavirus (HPV)

D) Syphilis

Answer: C) Human papillomavirus (HPV)

Which of the following is a bacterial infection that is transmitted through contaminated food or water and can cause severe diarrhea?

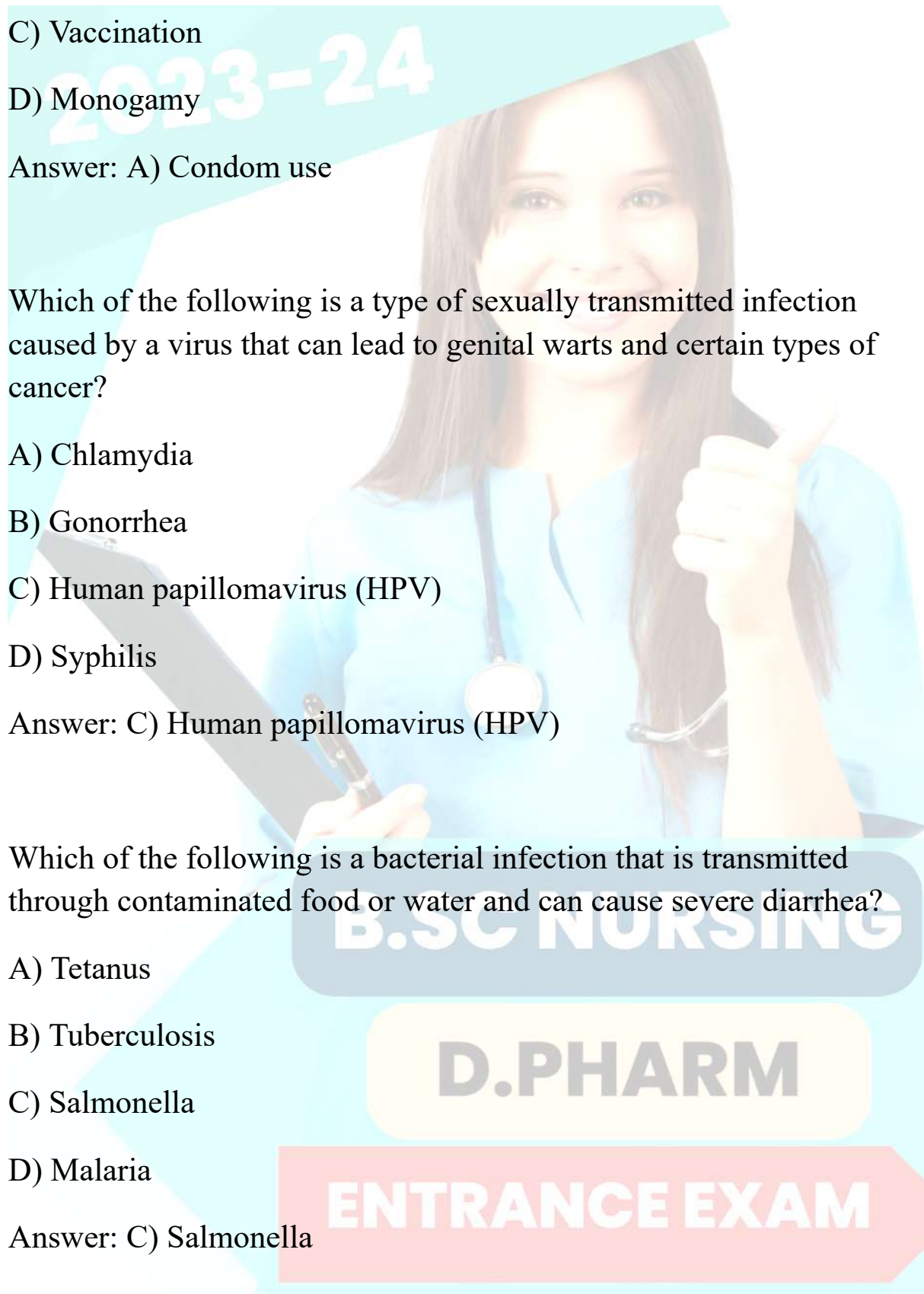
A) Tetanus

B) Tuberculosis

C) Salmonella

D) Malaria

Answer: C) Salmonella



Which of the following is a viral infection that can cause liver damage and liver cancer?

- A) HIV
- B) Hepatitis B
- C) Gonorrhea
- D) Syphilis

Answer: B) Hepatitis B

Which of the following is a common symptom of a heart attack?

- A) Fever
- B) Chest pain or discomfort
- C) Headache
- D) Joint pain

Answer: B) Chest pain or discomfort

Which of the following diseases is caused by a virus that can be transmitted through the air or by direct contact with an infected person and can cause respiratory illness?

- A) Tuberculosis
- B) Influenza
- C) Cholera
- D) Malaria

Answer: B) Influenza

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Which of the following is a bacterial infection that can cause a severe lung infection and can be transmitted through contact with contaminated soil or water?

- A) Legionnaires' disease
- B) Tetanus
- C) Typhoid fever
- D) Meningitis

Answer: A) Legionnaires' disease

Which of the following is a chronic inflammatory disease that affects the joints and can cause stiffness, swelling, and pain?

- A) Lupus
- B) Rheumatoid arthritis
- C) Multiple sclerosis
- D) Parkinson's disease

Answer: B) Rheumatoid arthritis

Which of the following is a sexually transmitted infection caused by a bacterium that can cause a burning sensation during urination and discharge from the penis or vagina?

- A) Gonorrhea
- B) Chlamydia

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C) Syphilis

D) Herpes

Answer: A) Gonorrhea

Which of the following is a viral infection that can cause fever, fatigue, and a yellowing of the skin and eyes?

A) Influenza

B) Mumps

C) Measles

D) Hepatitis A

Answer: D) Hepatitis A

Which of the following is a type of cancer that affects the lymphatic system and can cause swollen lymph nodes, fever, and weight loss?

A) Leukemia

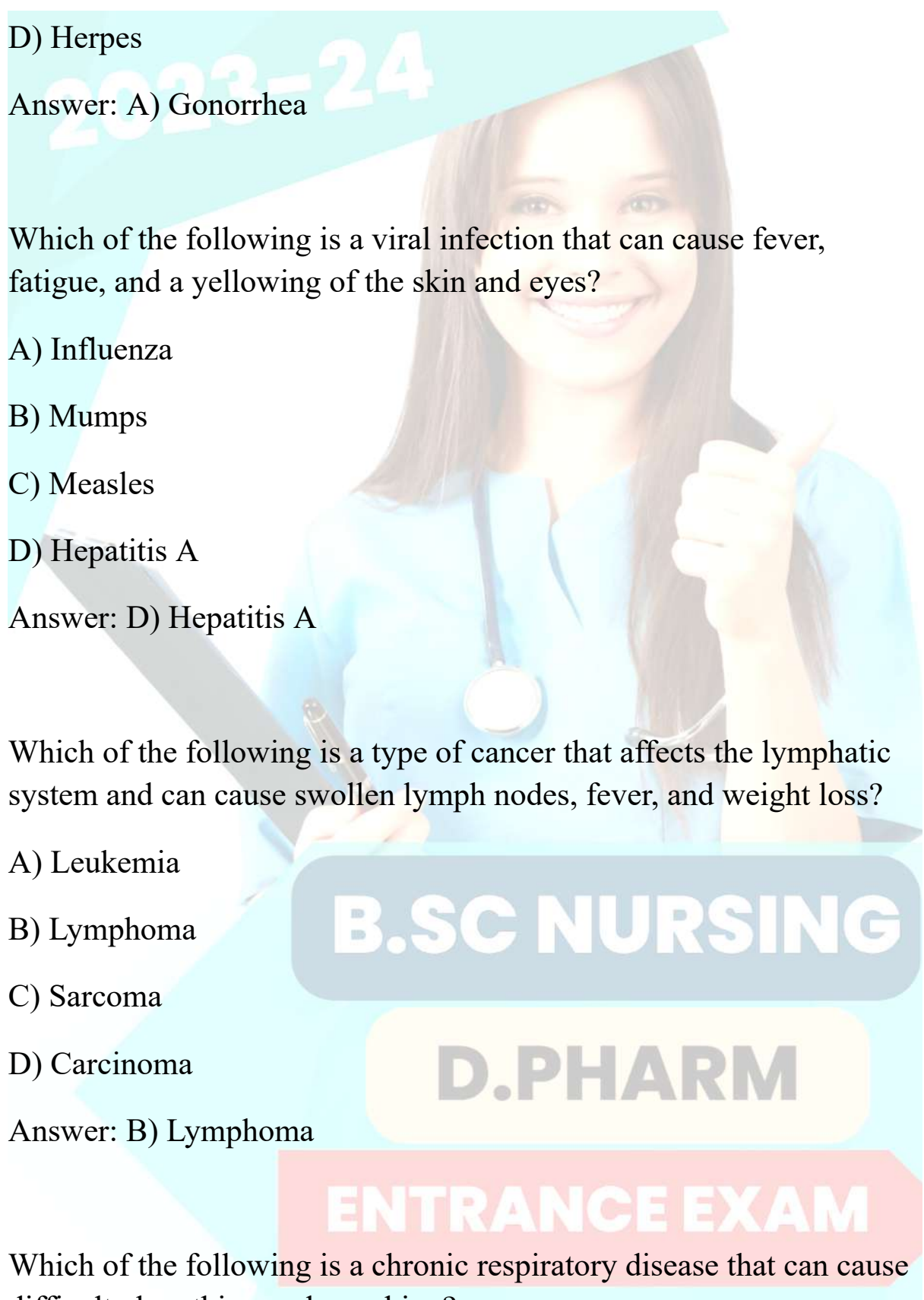
B) Lymphoma

C) Sarcoma

D) Carcinoma

Answer: B) Lymphoma

Which of the following is a chronic respiratory disease that can cause difficulty breathing and coughing?



A) Asthma

B) Emphysema

C) Bronchitis

D) Pneumonia

Answer: A) Asthma

Which of the following is a bacterial infection that can cause severe diarrhea, dehydration, and can be transmitted through contaminated food or water?

A) Tuberculosis

B) Tetanus

C) Cholera

D) Malaria

Answer: C) Cholera

Which of the following is a viral infection that can cause a rash, fever, and joint pain?

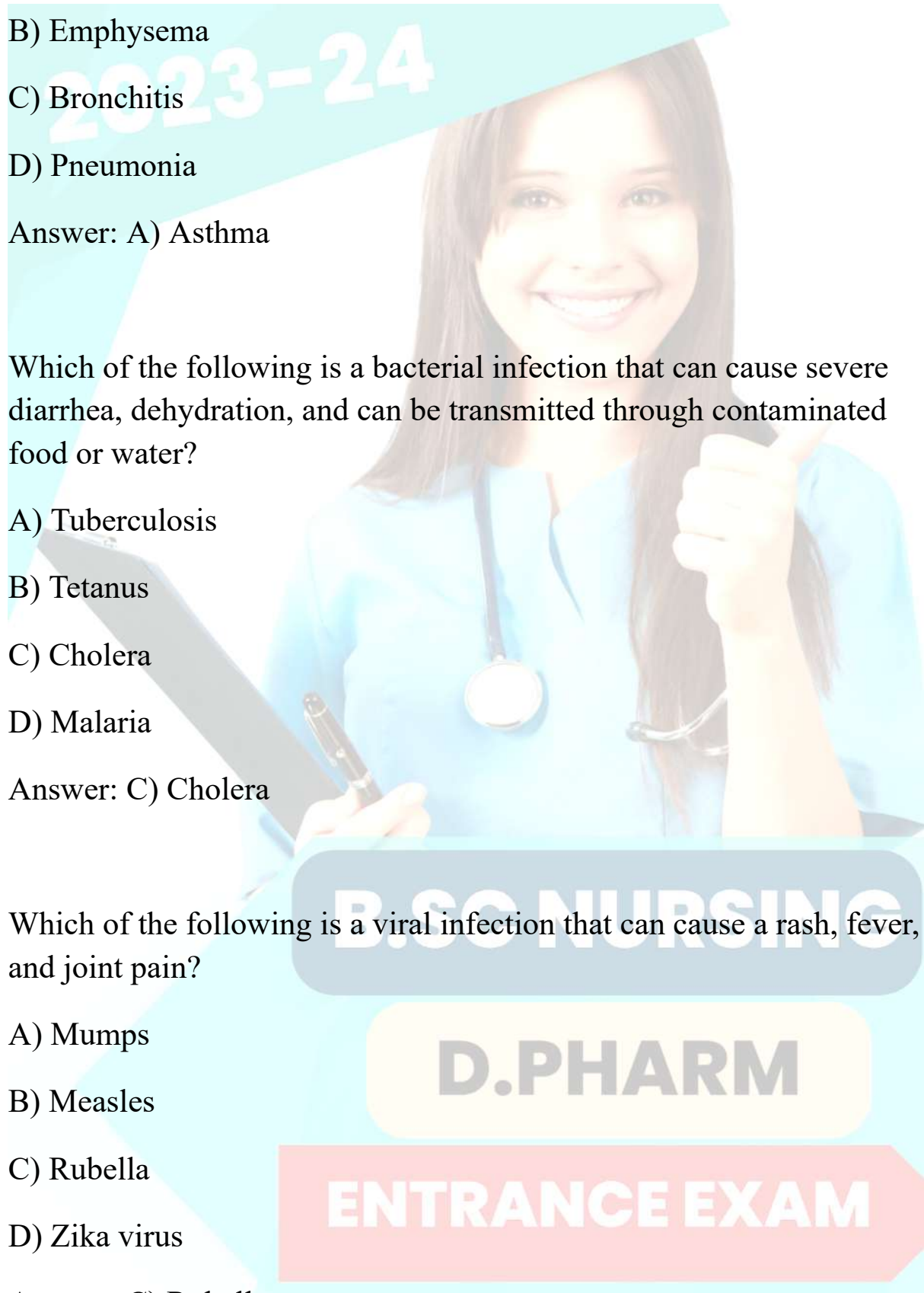
A) Mumps

B) Measles

C) Rubella

D) Zika virus

Answer: C) Rubella



Which of the following is a chronic autoimmune disease that affects the thyroid gland and can cause fatigue, weight gain, and depression?

- A) Diabetes
- B) Lupus
- C) Multiple sclerosis
- D) Hashimoto's thyroiditis

Answer: D) Hashimoto's thyroiditis

Which of the following is a viral infection that can cause fever, rash, and joint pain and is transmitted by mosquitoes?

- A) Dengue fever
- B) Typhoid fever
- C) Malaria
- D) Tuberculosis

Answer: A) Dengue fever

Which of the following is a bacterial infection that can cause severe food poisoning and can be transmitted through contaminated food or water?

- A) Salmonellosis
- B) E. coli infection
- C) Campylobacteriosis

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D) Listeriosis

Answer: A) Salmonellosis

Which of the following is a viral infection that can cause inflammation of the liver and can be transmitted through contaminated blood or bodily fluids?

A) Hepatitis B

B) Hepatitis C

C) Hepatitis A

D) Hepatitis D

Answer: B) Hepatitis C

Which of the following is a parasitic infection that can be transmitted by the bite of infected mosquitoes and can cause fever, chills, and flu-like symptoms?

A) Malaria

B) Typhoid fever

C) Cholera

D) Tuberculosis

Answer: A) Malaria

Which of the following is a chronic autoimmune disease that affects the skin and can cause red, scaly patches?

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A) Psoriasis

B) Eczema

C) Acne

D) Rosacea

Answer: A) Psoriasis

Which of the following is a viral infection that can cause a severe respiratory illness and can be transmitted through contact with contaminated surfaces or objects?

A) SARS-CoV-2

B) Influenza

C) HIV

D) Zika virus

Answer: A) SARS-CoV-2

Which of the following is a fungal infection that can affect the lungs and can be transmitted by breathing in contaminated air?

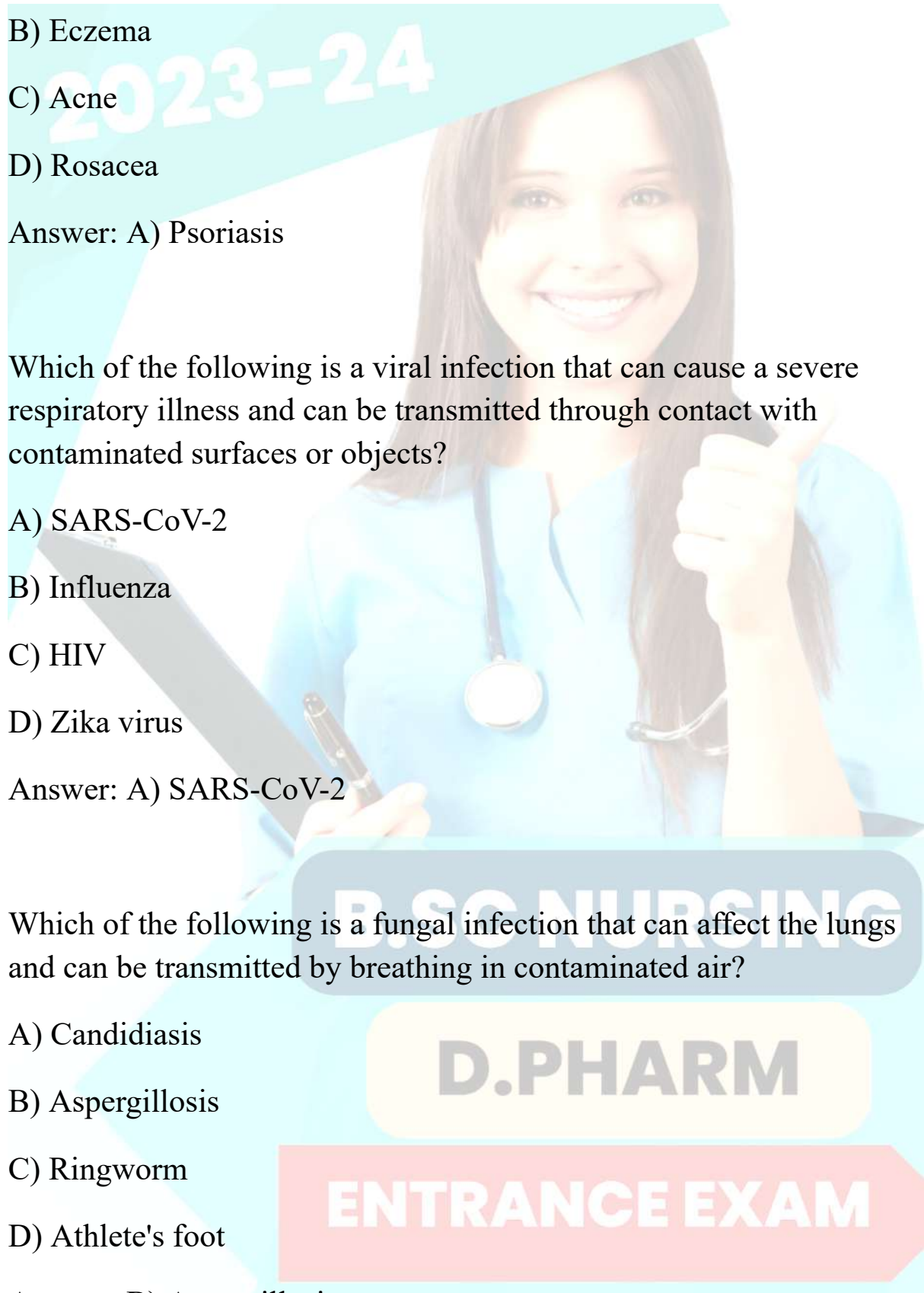
A) Candidiasis

B) Aspergillosis

C) Ringworm

D) Athlete's foot

Answer: B) Aspergillosis



Which of the following is a bacterial infection that can cause a skin rash, fever, and joint pain and is transmitted by ticks?

- A) Lyme disease
- B) Rocky Mountain spotted fever
- C) Typhus
- D) Tularemia

Answer: A) Lyme disease

Which of the following is a viral infection that can cause a painful rash and can be transmitted through contact with infected saliva?

- A) Herpes simplex
- B) Varicella-zoster virus
- C) Human papillomavirus
- D) Epstein-Barr virus

Answer: B) Varicella-zoster virus

Which of the following is a bacterial infection that can cause a sore throat, fever, and swollen lymph nodes and is transmitted through contact with infected saliva or mucus?

- A) Tuberculosis
- B) Syphilis

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C) Streptococcal pharyngitis

D) Chlamydia

Answer: C) Streptococcal pharyngitis

Which of the following is a fungal infection that can affect the nails, causing them to become thick, discolored, and brittle?

A) Ringworm

B) Candidiasis

C) Onychomycosis

D) Aspergillosis

Answer: C) Onychomycosis

Which of the following is a parasitic infection that can cause severe diarrhea and can be transmitted through contaminated food or water?

A) Cholera

B) Giardiasis

C) Cryptosporidiosis

D) Toxoplasmosis

Answer: B) Giardiasis

Which of the following is a viral infection that can cause inflammation of the brain and spinal cord and is transmitted through the bite of infected mosquitoes or ticks?

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A) West Nile virus

B) Zika virus

C) Japanese encephalitis

D) Rabies virus

Answer: C) Japanese encephalitis

Which of the following is a bacterial infection that can cause severe diarrhea and can be transmitted through contaminated food or water?

A) E. coli infection

B) Salmonellosis

C) Campylobacteriosis

D) Listeriosis

Answer: C) Campylobacteriosis

Which of the following is a parasitic infection that can cause severe anemia and can be transmitted through the bite of infected mosquitoes?

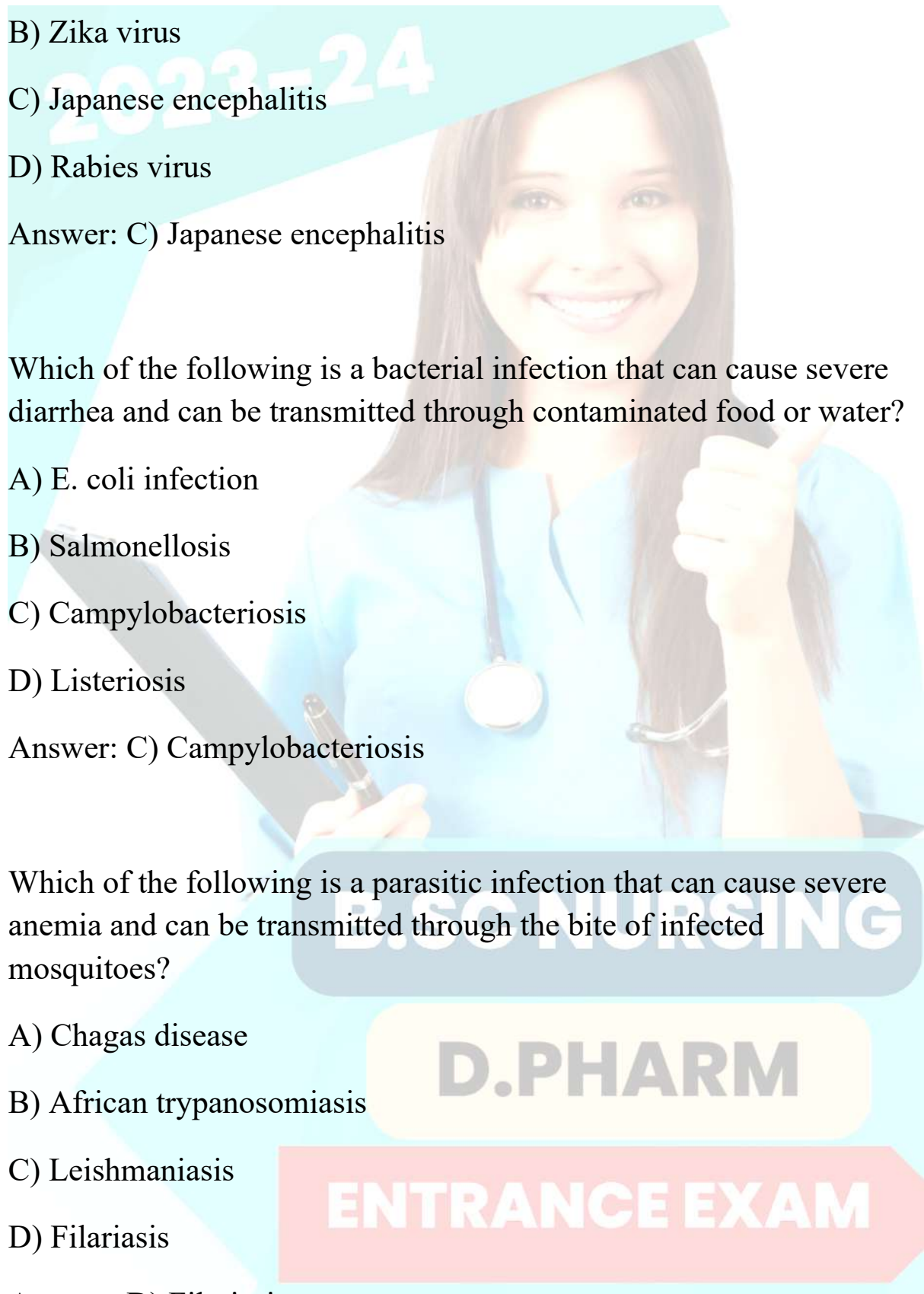
A) Chagas disease

B) African trypanosomiasis

C) Leishmaniasis

D) Filariasis

Answer: D) Filariasis



Which of the following is a viral infection that can cause a rash, fever, and joint pain and is transmitted through the bite of infected mosquitoes?

- A) Dengue fever
- B) West Nile virus
- C) Zika virus
- D) Yellow fever

Answer: D) Yellow fever

Which of the following is a bacterial infection that can cause a severe respiratory illness and can be transmitted through contact with infected saliva or mucus?

- A) Tuberculosis
- B) Pertussis
- C) Pneumococcal disease
- D) Legionnaires' disease

Answer: B) Pertussis

Which of the following is a parasitic infection that can affect the liver and can be transmitted through contaminated food or water?

- A) Toxoplasmosis
- B) Schistosomiasis

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C) Malaria

D) Ascariasis

Answer: B) Schistosomiasis

Which of the following is a viral infection that can cause inflammation of the liver and can be transmitted through contact with infected blood or bodily fluids?

A) Hepatitis B

B) Hepatitis C

C) Hepatitis A

D) Hepatitis D

Answer: A) Hepatitis B

Which of the following is a bacterial infection that can cause a severe respiratory illness and can be transmitted through contact with contaminated surfaces or objects?

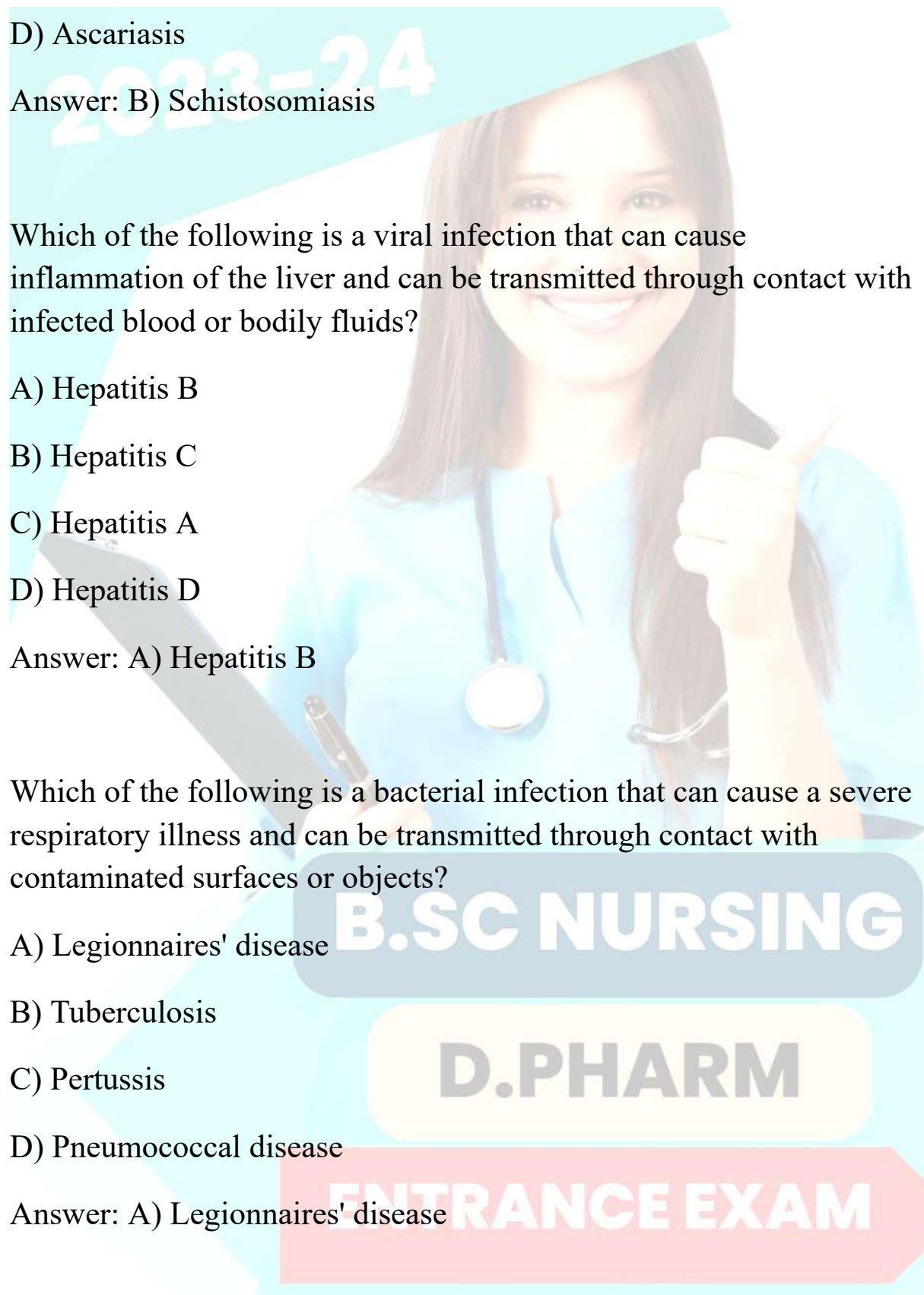
A) Legionnaires' disease

B) Tuberculosis

C) Pertussis

D) Pneumococcal disease

Answer: A) Legionnaires' disease



Which of the following is a viral infection that can cause a sore throat, fever, and swollen lymph nodes and can be transmitted through close contact with an infected person?

- A) Measles
- B) Mumps
- C) Rubella
- D) Epstein-Barr virus

Answer: D) Epstein-Barr virus

Which of the following is a parasitic infection that can cause severe diarrhea and can be transmitted through contaminated food or water?

- A) Cryptosporidiosis
- B) Cholera
- C) Giardiasis
- D) Toxoplasmosis

Answer: A) Cryptosporidiosis

Which of the following is a bacterial infection that can cause a skin rash, fever, and joint pain and can be transmitted through the bite of infected ticks?

- A) Lyme disease
- B) Rocky Mountain spotted fever
- C) Tularemia

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D) Q fever

Answer: A) Lyme disease

Which of the following is a viral infection that can cause inflammation of the liver and can be transmitted through contact with contaminated food or water?

A) Hepatitis A

B) Hepatitis B

C) Hepatitis C

D) Hepatitis D

Answer: A) Hepatitis A

Which of the following is a bacterial infection that can cause a severe respiratory illness and can be transmitted through contact with infected saliva or mucus?

A) Tuberculosis

B) Pertussis

C) Pneumococcal disease

D) Legionnaires' disease

Answer: B) Pertussis

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Which of the following is a parasitic infection that can cause severe liver and lung disease and can be transmitted through contact with infected feces?

- A) Schistosomiasis
- B) Ascariasis
- C) Hookworm infection
- D) Strongyloidiasis

Answer: A) Schistosomiasis

Which of the following is a viral infection that can cause inflammation of the brain and can be transmitted through the bite of infected mosquitoes?

- A) West Nile virus
- B) Zika virus
- C) Eastern equine encephalitis virus
- D) Rabies virus

Answer: C) Eastern equine encephalitis virus

Which of the following is a bacterial infection that can cause severe diarrhea and can be transmitted through contaminated food or water?

- A) Campylobacteriosis
- B) E. coli infection
- C) Salmonellosis

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D) Listeriosis

Answer: C) Salmonellosis

Which of the following is a parasitic infection that can cause severe anemia and can be transmitted through the bite of infected mosquitoes?

- A) Malaria
- B) African trypanosomiasis
- C) Chagas disease
- D) Leishmaniasis

Answer: A) Malaria

Which of the following is a viral infection that can cause a severe respiratory illness and can be transmitted through contact with infected animals or their secretions?

- A) Hantavirus pulmonary syndrome
- B) Avian influenza
- C) Severe acute respiratory syndrome (SARS)
- D) Middle East respiratory syndrome (MERS)

Answer: A) Hantavirus pulmonary syndrome

What is the process of using living organisms to develop or improve products and processes called?

- A) Genetic engineering

B) Bioprocessing

C) Bioremediation

D) Biomimicry

Answer: B) Bioprocessing

Which of the following techniques is used to amplify a specific DNA sequence in vitro?

A) Polymerase chain reaction (PCR)

B) Southern blotting

C) Northern blotting

D) Western blotting

Answer: A) Polymerase chain reaction (PCR)

Which of the following is an example of a genetically modified organism (GMO)?

A) A tomato plant that has been selectively bred to be resistant to pests

B) A cow that has been given antibiotics to treat an infection

C) A mouse that has had a gene from a jellyfish inserted into its DNA to make it glow in the dark

D) A human who has received a kidney transplant from a donor

Answer: C) A mouse that has had a gene from a jellyfish inserted into its DNA to make it glow in the dark

Which of the following is a method of separating molecules based on their size and charge using an electric field?

- A) Chromatography
- B) Gel electrophoresis
- C) Microarray analysis
- D) PCR amplification

Answer: B) Gel electrophoresis

Which of the following is a technique used to introduce foreign DNA into a host organism?

- A) Polymerase chain reaction (PCR)
- B) Southern blotting
- C) Transformation
- D) Western blotting

Answer: C) Transformation

Which of the following is an example of a bioreactor?

- A) A greenhouse used to grow plants
- B) A fermentation tank used to produce beer
- C) A centrifuge used to separate molecules
- D) A microscope used to observe cells

Answer: B) A fermentation tank used to produce beer

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What is the process of using microorganisms to clean up pollutants in the environment called?

- A) Bioremediation
- B) Bioprocessing
- C) Genetic engineering
- D) Biomimicry

Answer: A) Bioremediation

Which of the following is a technique used to detect specific DNA sequences using complementary probes?

- A) Polymerase chain reaction (PCR)
- B) Southern blotting
- C) Northern blotting
- D) Microarray analysis

Answer: B) Southern blotting

What is the process of selecting and breeding organisms with desirable traits called?

- A) Genetic engineering
- B) Bioprocessing

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C) Bioremediation

D) Selective breeding

Answer: D) Selective breeding

Which of the following is an example of a transgenic organism?

A) A plant that has been selectively bred to be resistant to drought

B) A cow that has been given growth hormone to increase milk production

C) A mouse that has had a gene for insulin production inserted into its DNA

D) A human who has received a heart transplant from a donor

Answer: C) A mouse that has had a gene for insulin production inserted into its DNA

Which of the following is a technique used to determine the sequence of DNA or RNA molecules?

A) Polymerase chain reaction (PCR)

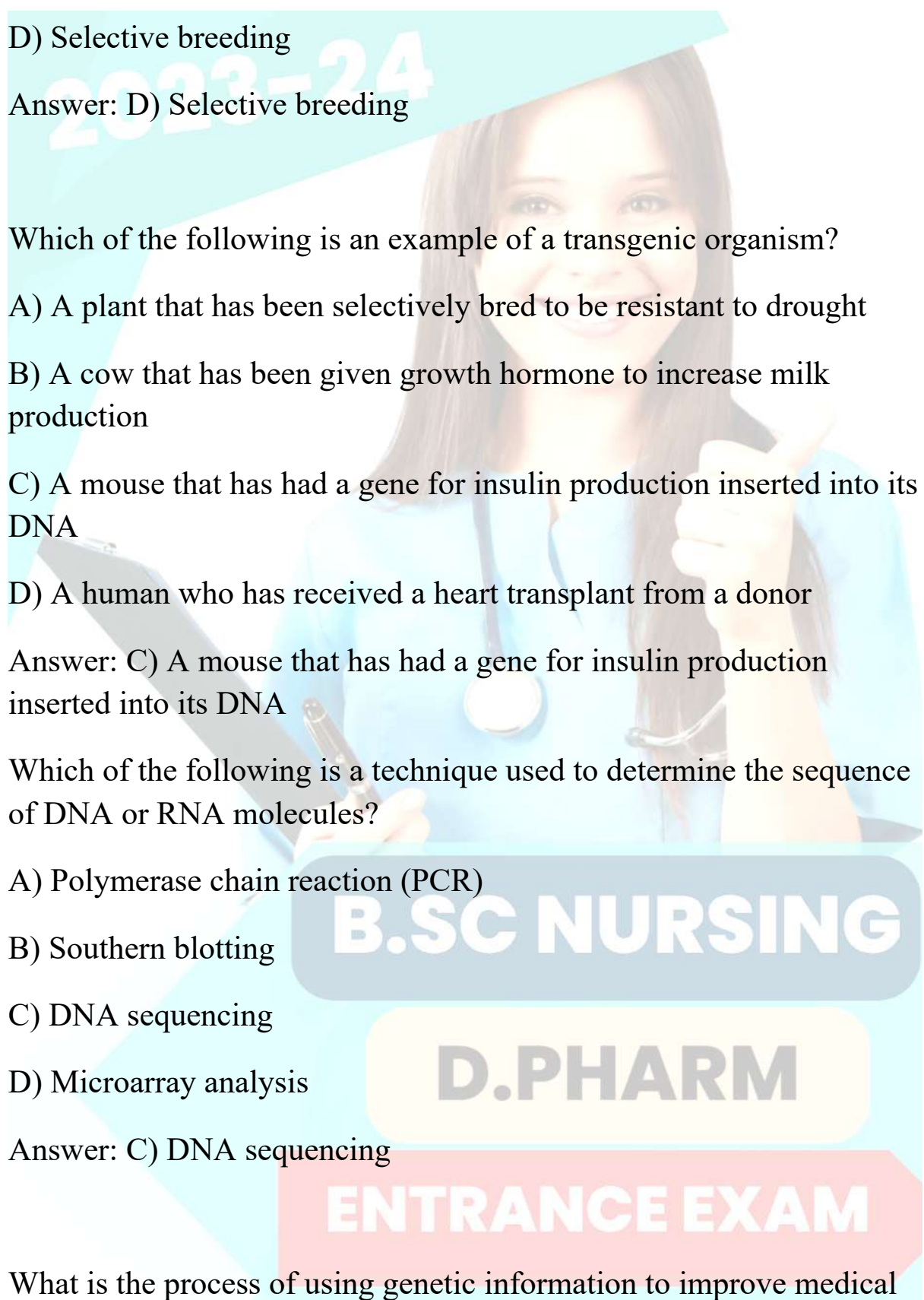
B) Southern blotting

C) DNA sequencing

D) Microarray analysis

Answer: C) DNA sequencing

What is the process of using genetic information to improve medical treatments called?



A) Personalized medicine

B) Bioprocessing

C) Bioremediation

D) Genetic engineering

Answer: A) Personalized medicine

Which of the following is a technique used to study gene expression on a genome-wide scale?

A) Polymerase chain reaction (PCR)

B) Southern blotting

C) Microarray analysis

D) Western blotting

Answer: C) Microarray analysis

Which of the following is a technique used to produce large quantities of recombinant proteins?

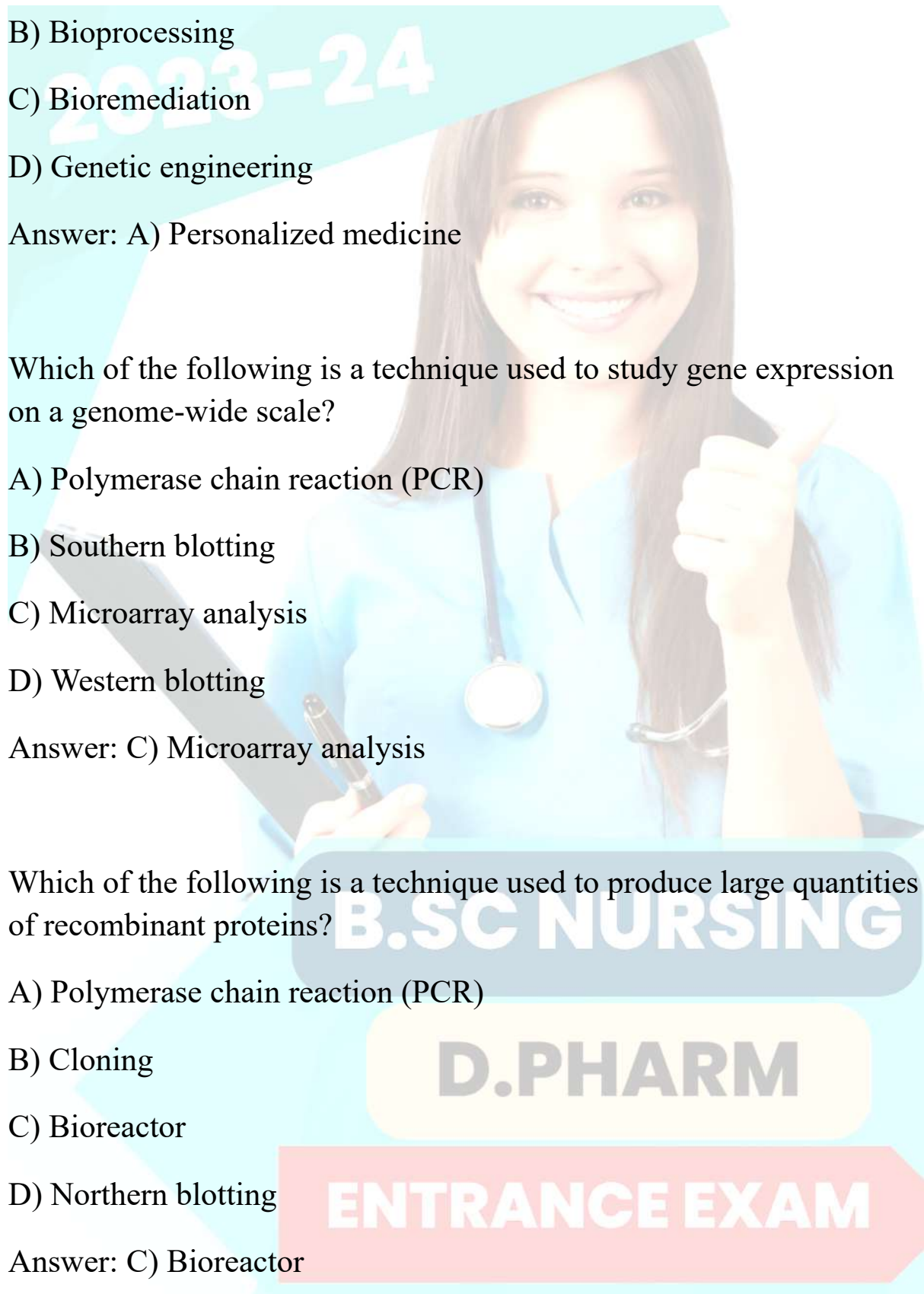
A) Polymerase chain reaction (PCR)

B) Cloning

C) Bioreactor

D) Northern blotting

Answer: C) Bioreactor



What is the process of introducing a new gene into an organism called?

- A) Gene therapy
- B) Genetic engineering
- C) Transformation
- D) Bioprocessing

Answer: B) Genetic engineering

Which of the following is a technique used to study protein interactions?

- A) Polymerase chain reaction (PCR)
- B) Southern blotting
- C) Microarray analysis
- D) Yeast two-hybrid assay

Answer: D) Yeast two-hybrid assay

What is the process of using microorganisms to produce useful products called?

- A) Bioreactor
- B) Bioprocessing
- C) Bioremediation
- D) Genetic engineering

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Answer: B) Bioprocessing

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Which of the following is a technique used to study the function of a gene by inactivating it?

- A) RNA interference (RNAi)
- B) Cloning
- C) CRISPR-Cas9
- D) Microarray analysis

Answer: A) RNA interference (RNAi)

What is the process of using genetic information to identify disease-causing mutations called?

- A) Personalized medicine
- B) Gene therapy
- C) Bioprocessing
- D) Genetic engineering

Answer: A) Personalized medicine

Which of the following is a technique used to identify proteins based on their size and charge using an electric field?

- A) Chromatography
- B) Gel electrophoresis

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C) Microarray analysis

D) Western blotting

Answer: D) Western blotting

What is the process of cutting DNA at specific locations called?

A) Ligation

B) Polymerase chain reaction (PCR)

C) Restriction digestion

D) Transformation

Answer: C) Restriction digestion

Which of the following is a technique used to separate DNA fragments based on their size using an electric field?

A) Gel electrophoresis

B) Western blotting

C) Southern blotting

D) Northern blotting

Answer: A) Gel electrophoresis

Which of the following is a technique used to introduce foreign DNA into a bacterial cell?

A) Ligation

B) Polymerase chain reaction (PCR)

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C) Transformation

D) Restriction digestion

Answer: C) Transformation

Which of the following is a technique used to amplify a specific region of DNA?

A) Ligation

B) Polymerase chain reaction (PCR)

C) Transformation

D) Restriction digestion

Answer: B) Polymerase chain reaction (PCR)

What is the process of using enzymes to join together two pieces of DNA called?

A) Ligation

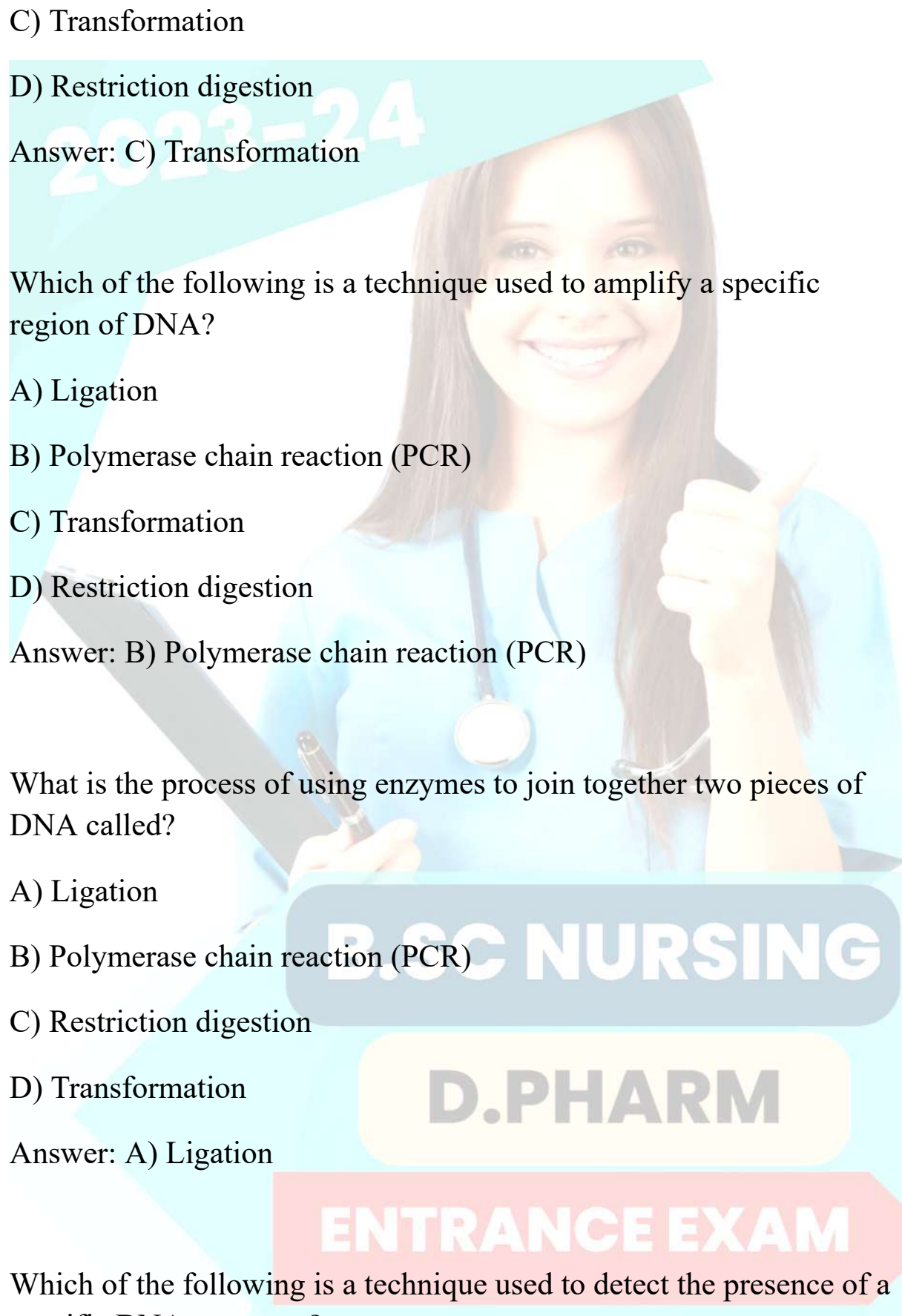
B) Polymerase chain reaction (PCR)

C) Restriction digestion

D) Transformation

Answer: A) Ligation

Which of the following is a technique used to detect the presence of a specific DNA sequence?



A) Gel electrophoresis

B) Southern blotting

C) Northern blotting

D) Western blotting

Answer: B) Southern blotting

Which of the following is a technique used to create a large number of identical copies of a DNA sequence?

A) Gel electrophoresis

B) Southern blotting

C) Polymerase chain reaction (PCR)

D) Northern blotting

Answer: C) Polymerase chain reaction (PCR)

Which of the following is a technique used to separate and purify proteins based on their properties?

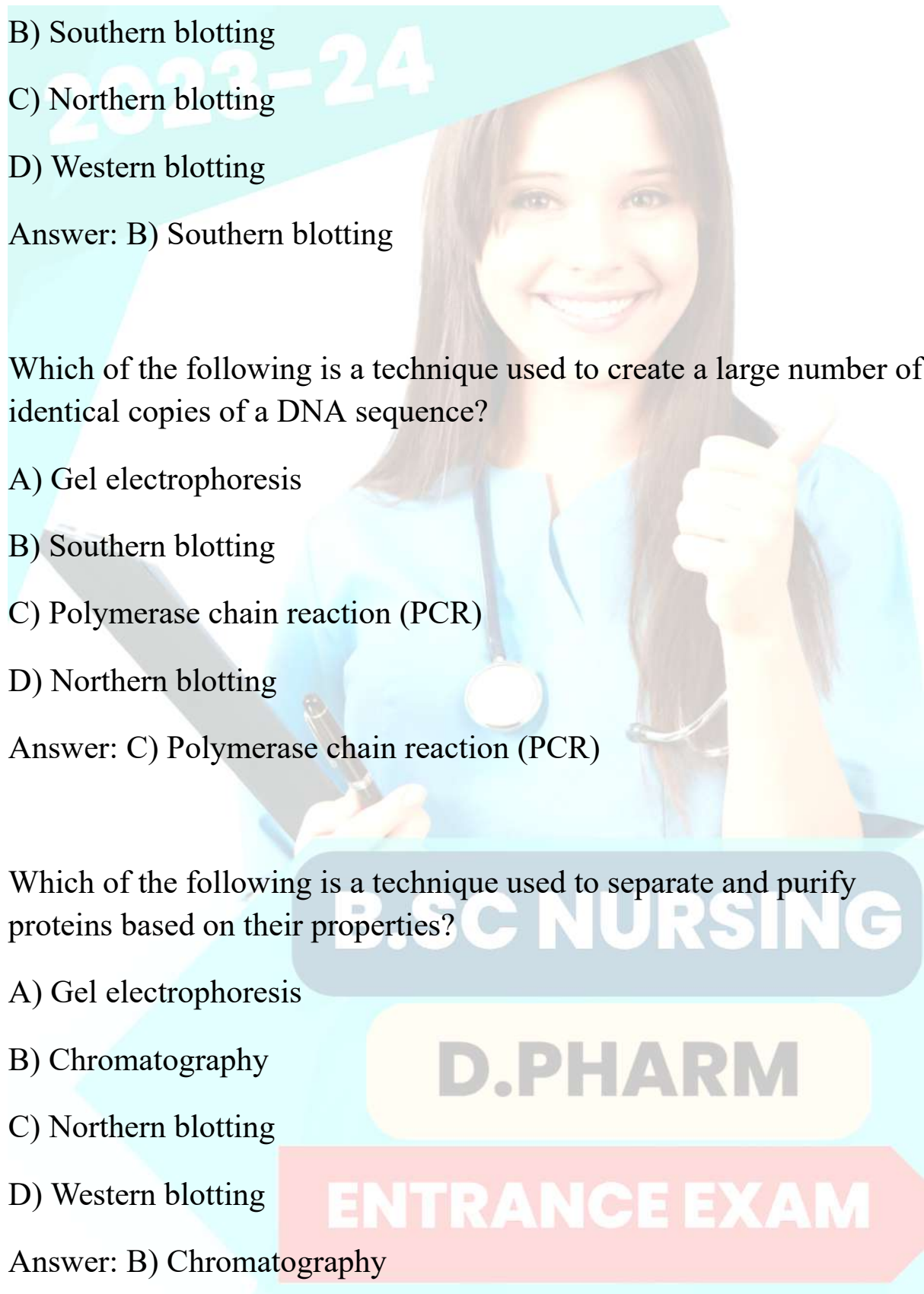
A) Gel electrophoresis

B) Chromatography

C) Northern blotting

D) Western blotting

Answer: B) Chromatography



Which of the following is a technique used to detect and quantify the amount of a specific protein in a sample?

- A) Gel electrophoresis
- B) Southern blotting
- C) Northern blotting
- D) Western blotting

Answer: D) Western blotting

Which of the following is a technique used to determine the sequence of a protein?

- A) Gel electrophoresis
- B) Chromatography
- C) Edman degradation
- D) Mass spectrometry

Answer: C) Edman degradation

What is the process of creating a recombinant DNA molecule called?

- A) Ligation
- B) Polymerase chain reaction (PCR)
- C) Transformation
- D) Restriction digestion

Answer: A) Ligation

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Which of the following is a technique used to cut DNA into specific fragments?

- A) Gel electrophoresis
- B) Southern blotting
- C) Restriction digestion
- D) Western blotting

Answer: C) Restriction digestion

Which of the following is a technique used to introduce foreign DNA into a eukaryotic cell?

- A) Transformation
- B) Transfection
- C) Transduction
- D) Translation

Answer: B) Transfection

Which of the following is a technique used to separate proteins based on their charge?

- A) Gel electrophoresis
- B) Chromatography
- C) Western blotting
- D) Northern blotting

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Answer: A) Gel electrophoresis

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What is the process of using a plasmid to carry foreign DNA into a bacterial cell called?

- A) Transformation
- B) Transfection
- C) Transduction
- D) Translation

Answer: A) Transformation

Which of the following is a technique used to analyze the expression of genes in a cell or tissue?

- A) Polymerase chain reaction (PCR)
- B) Microarray analysis
- C) Southern blotting
- D) Western blotting

Answer: B) Microarray analysis

Which of the following is a technique used to create a complementary DNA copy of an RNA molecule?

- A) Polymerase chain reaction (PCR)
- B) Reverse transcription

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C) Transformation

D) Transfection

Answer: B) Reverse transcription

What is the process of using living cells or organisms to produce a desired product called?

A) Bioremediation

B) Biotechnology

C) Fermentation

D) Transgenic technology

Answer: B) Biotechnology

Which of the following is a technique used to purify and concentrate proteins from a mixture?

A) Gel electrophoresis

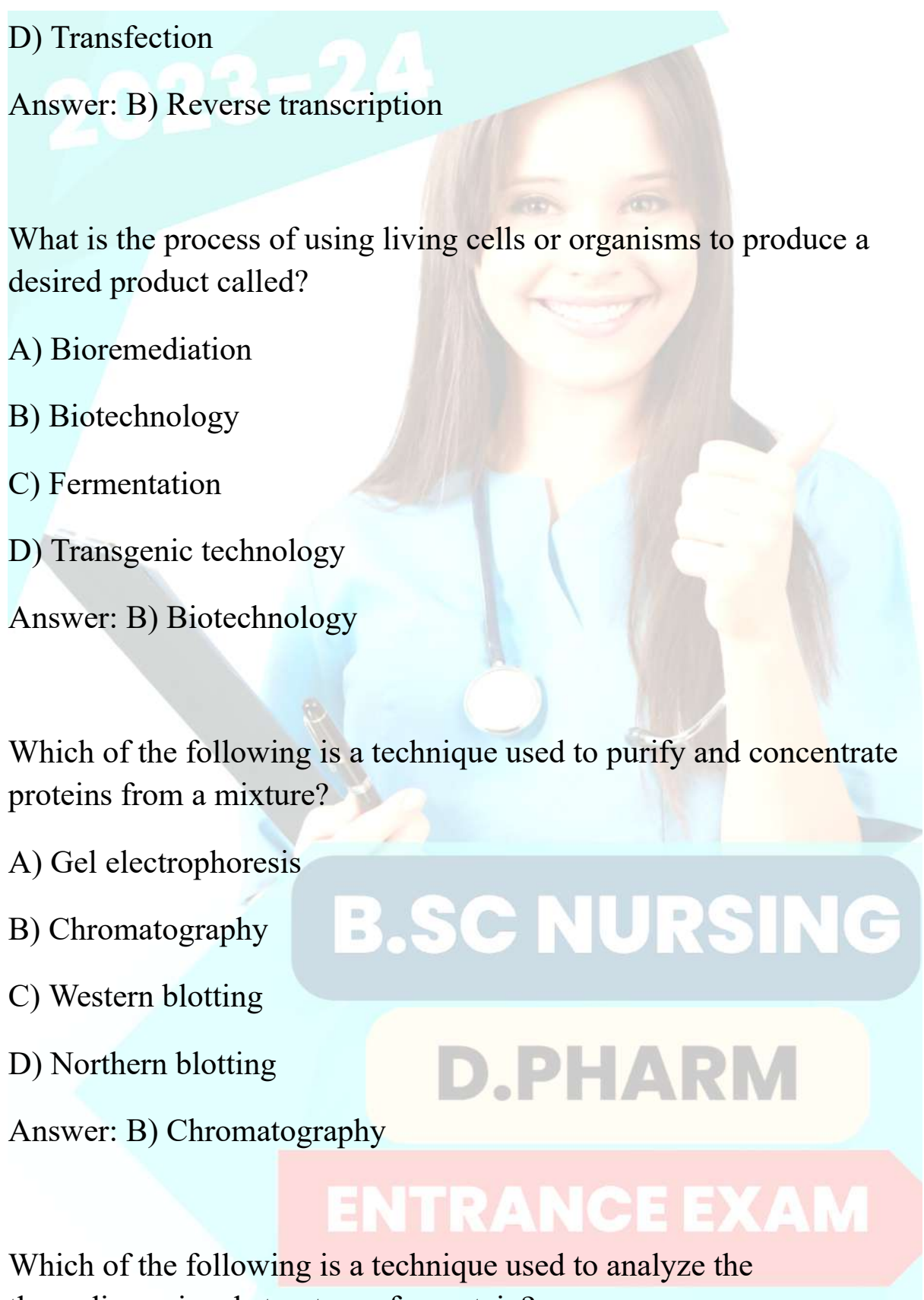
B) Chromatography

C) Western blotting

D) Northern blotting

Answer: B) Chromatography

Which of the following is a technique used to analyze the three-dimensional structure of a protein?



A) X-ray crystallography

B) NMR spectroscopy

C) Mass spectrometry

D) Edman degradation

Answer: A) X-ray crystallography

What is the process of using genetic engineering to produce large amounts of a protein called?

A) Recombinant protein production

B) Transgenic production

C) Cloning

D) Bioremediation

Answer: A) Recombinant protein production

Which of the following is a technique used to detect and quantify a specific DNA sequence in a sample?

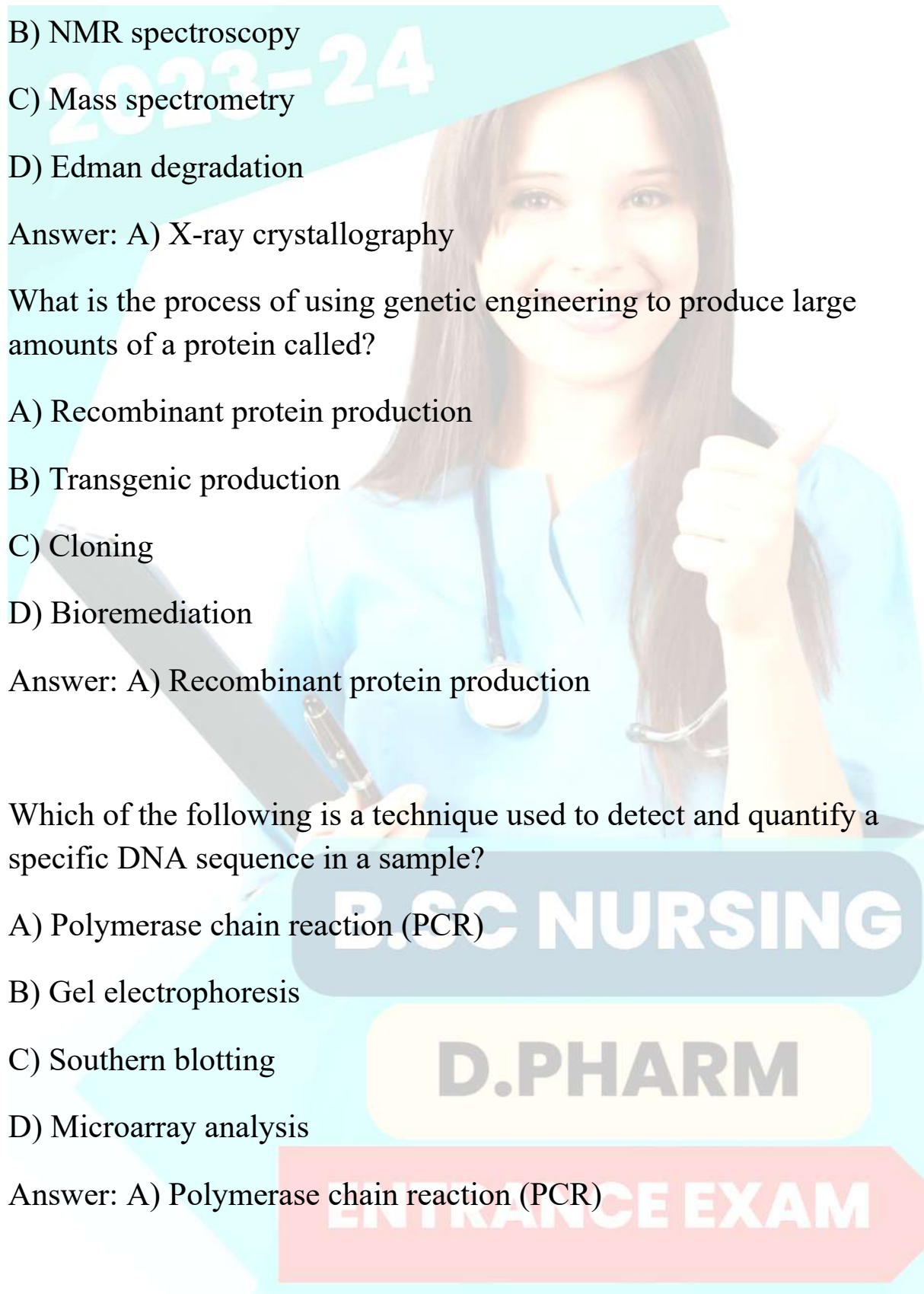
A) Polymerase chain reaction (PCR)

B) Gel electrophoresis

C) Southern blotting

D) Microarray analysis

Answer: A) Polymerase chain reaction (PCR)



Which of the following is a technique used to introduce a specific mutation into a DNA sequence?

- A) Site-directed mutagenesis
- B) Polymerase chain reaction (PCR)
- C) Gel electrophoresis
- D) Southern blotting

Answer: A) Site-directed mutagenesis

Which of the following is a technique used to sequence DNA?

- A) Polymerase chain reaction (PCR)
- B) Gel electrophoresis
- C) Sanger sequencing
- D) Microarray analysis

Answer: C) Sanger sequencing

What is the process of creating multiple copies of a DNA sequence called?

- A) Cloning
- B) Polymerase chain reaction (PCR)
- C) Gel electrophoresis
- D) Southern blotting

Answer: B) Polymerase chain reaction (PCR)

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Which of the following is a technique used to analyze the expression of genes in single cells?

- A) Microarray analysis
- B) Reverse transcription
- C) Single-cell RNA sequencing
- D) Western blotting

Answer: C) Single-cell RNA sequencing

What is the process of introducing a new gene into a plant cell called?

- A) Plant transformation
- B) Plant transduction
- C) Plant transfection
- D) Plant translation

Answer: A) Plant transformation

Which of the following is a technique used to produce a large amount of a specific RNA molecule in vitro?

- A) Reverse transcription
- B) Polymerase chain reaction (PCR)
- C) In vitro transcription
- D) Gel electrophoresis

Answer: C) In vitro transcription

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Which of the following is a technique used to analyze the structure of proteins and protein complexes in solution?

- A) X-ray crystallography
- B) NMR spectroscopy
- C) Mass spectrometry
- D) Cryo-electron microscopy

Answer: B) NMR spectroscopy

What is the process of using genetic engineering to create a new organism with desirable traits called?

- A) Genetic modification
- B) Transgenic technology
- C) Cloning
- D) Bioremediation

Answer: B) Transgenic technology

Which of the following is a technique used to separate proteins based on their size and charge?

- A) Gel electrophoresis
- B) Southern blotting
- C) Polymerase chain reaction (PCR)

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D) Microarray analysis

Answer: A) Gel electrophoresis

What is the process of using microorganisms to break down environmental pollutants called?

A) Bioremediation

B) Transgenic technology

C) Genetic modification

D) Cloning

Answer: A) Bioremediation

Which of the following is a technique used to analyze the function of genes in an organism?

A) Microarray analysis

B) Reverse transcription

C) Gene editing

D) Western blotting

Answer: C) Gene editing

What is the process of creating a genetically identical copy of an organism called?

A) Cloning

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B) Transgenic technology

C) Bioremediation

D) Genetic modification

Answer: A) Cloning

Which of the following is a technique used to detect and quantify proteins in a sample?

A) Western blotting

B) Polymerase chain reaction (PCR)

C) Gel electrophoresis

D) Southern blotting

Answer: A) Western blotting

What is the process of using living cells to produce a desired product called?

A) Biomanufacturing

B) Genetic modification

C) Transgenic technology

D) Cloning

Answer: A) Biomanufacturing

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Which of the following is a technique used to determine the sequence of nucleotides in a DNA molecule?

- A) Sanger sequencing
- B) Polymerase chain reaction (PCR)
- C) Gel electrophoresis
- D) Microarray analysis

Answer: A) Sanger sequencing

What is the process of creating a genetically modified organism that contains DNA from multiple sources called?

- A) Recombinant DNA technology
- B) Bioremediation
- C) Transgenic technology
- D) Cloning

Answer: A) Recombinant DNA technology

Which of the following is a technique used to determine the identity and quantity of proteins in a sample?

- A) Mass spectrometry
- B) X-ray crystallography
- C) NMR spectroscopy
- D) Microarray analysis

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Answer: A) Mass spectrometry

What is the process of introducing a specific gene into an animal cell called?

- A) Transfection
- B) Transformation
- C) Transduction
- D) Translation

Answer: A) Transfection

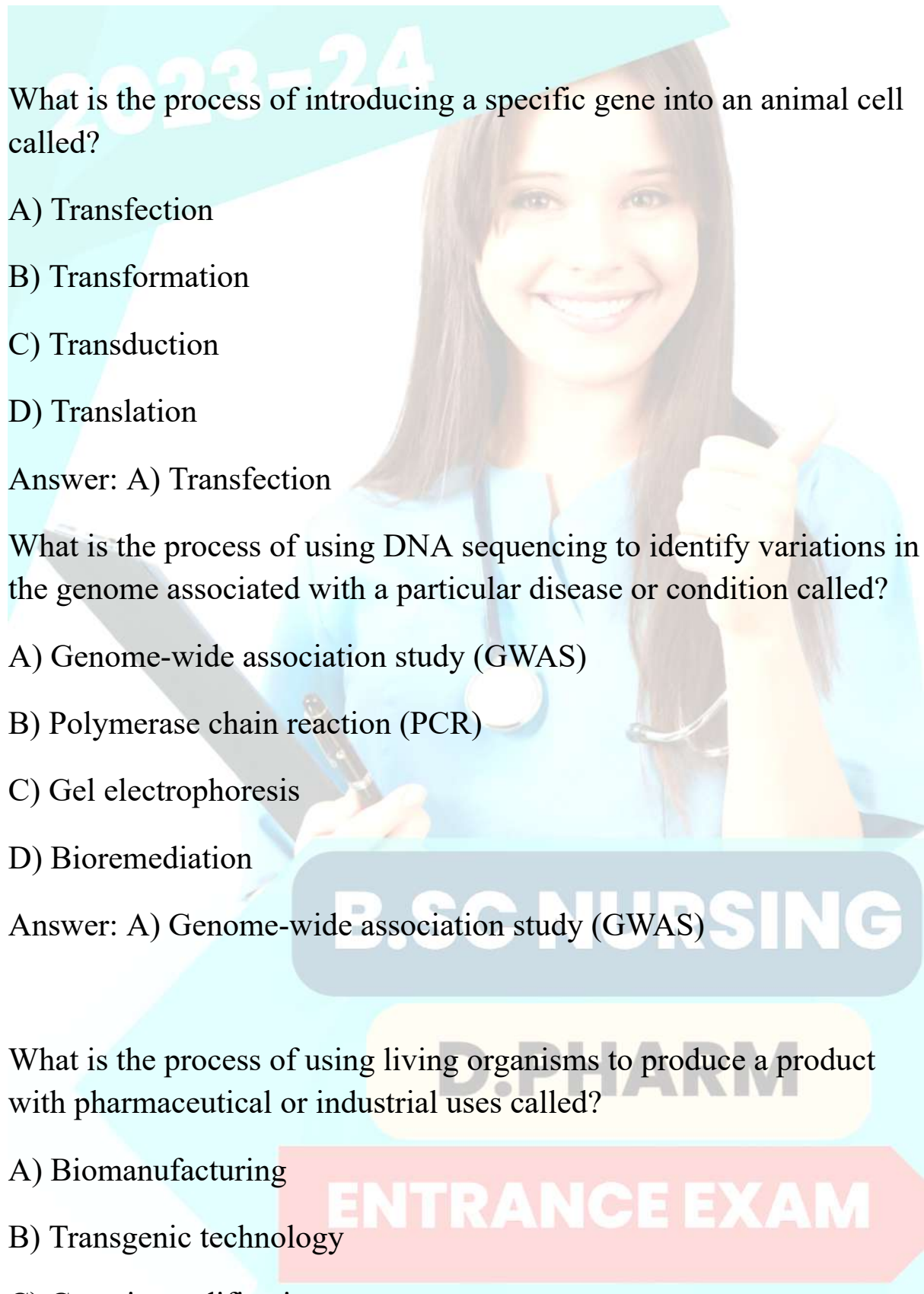
What is the process of using DNA sequencing to identify variations in the genome associated with a particular disease or condition called?

- A) Genome-wide association study (GWAS)
- B) Polymerase chain reaction (PCR)
- C) Gel electrophoresis
- D) Bioremediation

Answer: A) Genome-wide association study (GWAS)

What is the process of using living organisms to produce a product with pharmaceutical or industrial uses called?

- A) Biomanufacturing
- B) Transgenic technology
- C) Genetic modification



D) Cloning

Answer: A) Biomanufacturing

What is the process of using genetic engineering to create organisms that can produce useful products called?

A) Bioengineering

B) Bioremediation

C) Biomanufacturing

D) Cloning

Answer: C) Biomanufacturing

Which of the following is a technique used to amplify a specific region of DNA for further analysis?

A) Polymerase chain reaction (PCR)

B) Gel electrophoresis

C) Microarray analysis

D) Southern blotting

Answer: A) Polymerase chain reaction (PCR)

What is the process of introducing a gene into a plant cell and regenerating a whole plant from the modified cell called?

A) Genetic engineering

B) Biomanufacturing

C) Transgenic technology

D) Cloning

Answer: C) Transgenic technology

Which of the following is a technique used to determine the three-dimensional structure of proteins or other molecules?

A) X-ray crystallography

B) Mass spectrometry

C) NMR spectroscopy

D) Western blotting

Answer: A) X-ray crystallography

What is the process of using living cells or organisms to produce large quantities of a specific protein or other molecule called?

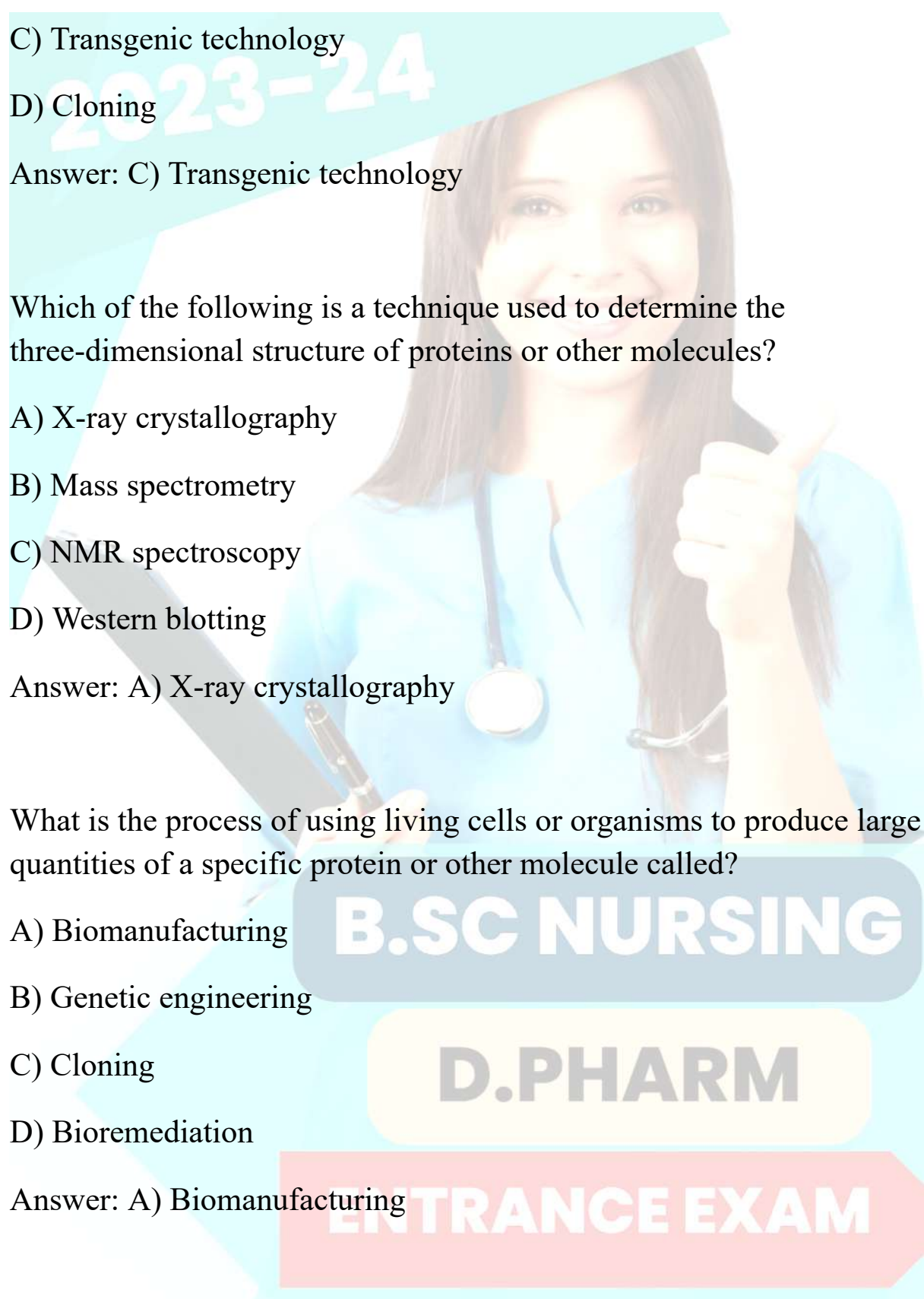
A) Biomanufacturing

B) Genetic engineering

C) Cloning

D) Bioremediation

Answer: A) Biomanufacturing



Which of the following is a technique used to analyze the expression levels of genes in a sample?

- A) Microarray analysis
- B) Sanger sequencing
- C) Gel electrophoresis
- D) Polymerase chain reaction (PCR)

Answer: A) Microarray analysis

What is the process of using genetic engineering to produce organisms with specific desired traits called?

- A) Transgenic technology
- B) Biomanufacturing
- C) Cloning
- D) Bioremediation

Answer: A) Transgenic technology

Which of the following is a technique used to determine the identity and quantity of small molecules in a sample?

- A) Mass spectrometry
- B) X-ray crystallography
- C) NMR spectroscopy
- D) Western blotting

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Answer: A) Mass spectrometry

What is the process of using microorganisms to clean up environmental pollution called?

- A) Bioremediation
- B) Biomanufacturing
- C) Transgenic technology
- D) Genetic engineering

Answer: A) Bioremediation

What is the process of using genetic engineering to create multiple identical copies of a gene called?

- A) Cloning
- B) Bioremediation
- C) Biomanufacturing
- D) Transgenic technology

Answer: A) Cloning

Which of the following is a technique used to separate DNA fragments by size?

- A) Polymerase chain reaction (PCR)
- B) Gel electrophoresis
- C) Microarray analysis

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D) Southern blotting

Answer: B) Gel electrophoresis

What is the process of using living organisms to produce energy called?

A) Bioremediation

B) Biomanufacturing

C) Biofuels

D) Genetic engineering

Answer: C) Biofuels

What is the process of creating genetically identical copies of an organism called?

A) Cloning

B) Biomanufacturing

C) Transgenic technology

D) Bioremediation

Answer: A) Cloning

Which of the following is a technique used to detect and quantify proteins in a sample?

A) X-ray crystallography

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B) Mass spectrometry

C) NMR spectroscopy

D) Western blotting

Answer: D) Western blotting

What is the process of using genetic engineering to produce a protein with therapeutic or diagnostic uses called?

A) Biomanufacturing

B) Bioremediation

C) Transgenic technology

D) Cloning

Answer: A) Biomanufacturing

Which of the following is a technique used to cut DNA at specific locations?

A) Gel electrophoresis

B) Microarray analysis

C) Restriction enzyme digestion

D) Southern blotting

Answer: C) Restriction enzyme digestion

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What is the process of using living organisms to produce a product with nutritional or pharmaceutical uses called?

- A) Bioremediation
- B) Biomanufacturing
- C) Transgenic technology
- D) Genetic engineering

Answer: B) Biomanufacturing

What is the process of using genetic engineering to modify the genetic makeup of an organism called?

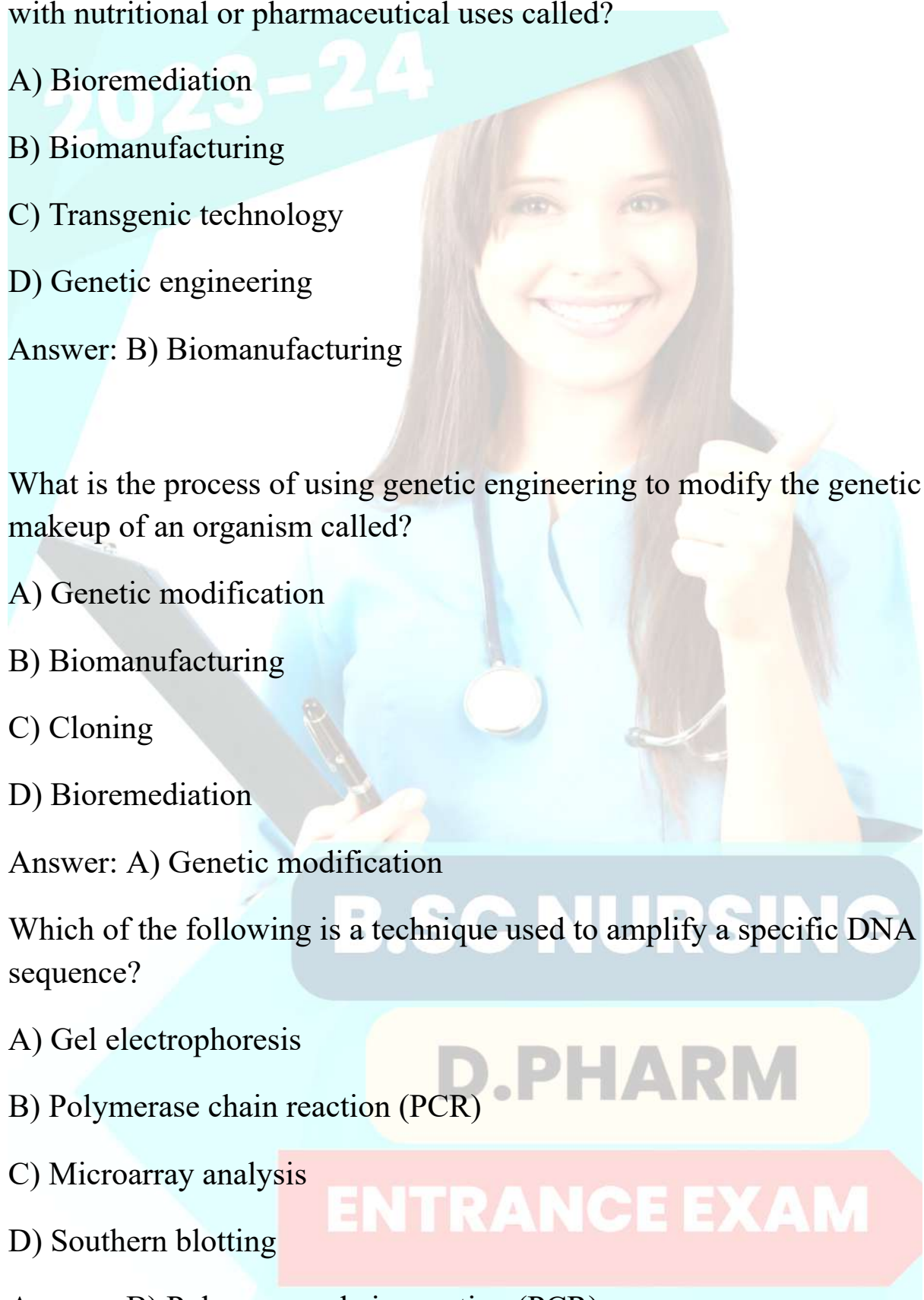
- A) Genetic modification
- B) Biomanufacturing
- C) Cloning
- D) Bioremediation

Answer: A) Genetic modification

Which of the following is a technique used to amplify a specific DNA sequence?

- A) Gel electrophoresis
- B) Polymerase chain reaction (PCR)
- C) Microarray analysis
- D) Southern blotting

Answer: B) Polymerase chain reaction (PCR)



What is the process of using genetic engineering to transfer a gene from one organism to another called?

- A) Cloning
- B) Bioremediation
- C) Transgenic technology
- D) Biomanufacturing

Answer: C) Transgenic technology

Which of the following is a technique used to detect and identify mutations in DNA?

- A) Gel electrophoresis
- B) Southern blotting
- C) PCR
- D) Sequencing

Answer: D) Sequencing

What is the process of using living organisms to produce chemicals or materials called?

- A) Bioremediation
- B) Biomanufacturing
- C) Transgenic technology

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D) Cloning

Answer: B) Biomanufacturing

Which of the following is a technique used to analyze gene expression?

A) Polymerase chain reaction (PCR)

B) Microarray analysis

C) Southern blotting

D) Gel electrophoresis

Answer: B) Microarray analysis

What is the process of using genetic engineering to produce plants or animals with desirable traits called?

A) Transgenic technology

B) Bioremediation

C) Cloning

D) Biomanufacturing

Answer: A) Transgenic technology

Which of the following is a technique used to separate and analyze proteins in a sample?

A) Western blotting

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B) Gel electrophoresis

C) Mass spectrometry

D) NMR spectroscopy

Answer: B) Gel electrophoresis

What is the process of using living organisms to produce large quantities of a protein for medical use called?

A) Bioremediation

B) Biomanufacturing

C) Transgenic technology

D) Cloning

Answer: B) Biomanufacturing

Which of the following is a technique used to analyze the structure of proteins?

A) Gel electrophoresis

B) X-ray crystallography

C) Mass spectrometry

D) NMR spectroscopy

Answer: B) X-ray crystallography

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What is the process of using genetic engineering to modify the genes of an organism in a specific way called?

- A) Genetic modification
- B) Bioremediation
- C) Transgenic technology
- D) Biomanufacturing

Answer: A) Genetic modification

Which of the following is an application of biotechnology in agriculture?

- A) Production of biofuels
- B) Bioremediation of contaminated soils
- C) Development of pest-resistant crops
- D) Production of antibiotics

Answer: C) Development of pest-resistant crops

What is the process of using microorganisms to clean up pollutants in the environment called?

- A) Bioremediation
- B) Genetic engineering
- C) Biomanufacturing
- D) Transgenic technology

Answer: A) Bioremediation

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Which of the following is an application of biotechnology in medicine?

- A) Production of genetically modified crops
- B) Development of biofuels
- C) Production of vaccines
- D) Production of paper and textiles

Answer: C) Production of vaccines

What is the process of using microorganisms to produce a product called?

- A) Bioremediation
- B) Genetic engineering
- C) Biomanufacturing
- D) Transgenic technology

Answer: C) Biomanufacturing

Which of the following is an example of a biotechnology product used in industry?

- A) Antibiotics
- B) Biofuels
- C) Vaccines

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D) Pesticides

Answer: B) Biofuels

What is the process of using genetic engineering to produce human insulin called?

- A) Bioremediation
- B) Biomanufacturing
- C) Transgenic technology
- D) Cloning

Answer: B) Biomanufacturing

Which of the following is an application of biotechnology in environmental science?

- A) Production of biofuels
- B) Bioremediation of contaminated soils
- C) Development of pest-resistant crops
- D) Production of antibiotics

Answer: B) Bioremediation of contaminated soils

What is the process of using genetic engineering to produce a plant with a desired trait called?

- A) Transgenic technology

B) Bioremediation

C) Cloning

D) Biomanufacturing

Answer: A) Transgenic technology

Which of the following is an example of a biotechnology product used in agriculture?

A) Pesticides

B) Biofuels

C) Vaccines

D) Antibiotics

Answer: A) Pesticides

What is the process of using genetic engineering to produce a vaccine called?

A) Bioremediation

B) Biomanufacturing

C) Transgenic technology

D) Cloning

Answer: B) Biomanufacturing

Which of the following is an application of biotechnology in forensic science?

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A) Production of biofuels

B) Analysis of DNA evidence

C) Development of pest-resistant crops

D) Production of vaccines

Answer: B) Analysis of DNA evidence

What is the process of using biotechnology to develop new medicines called?

A) Biomanufacturing

B) Genetic engineering

C) Bioremediation

D) Transgenic technology

Answer: A) Biomanufacturing

Which of the following is an example of a biotechnology product used in medicine?

A) Pesticides

B) Biofuels

C) Antibiotics

D) Fertilizers

Answer: C) Antibiotics

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What is the process of using genetic engineering to produce a plant that is resistant to herbicides called?

- A) Transgenic technology
- B) Bioremediation
- C) Cloning
- D) Biomanufacturing

Answer: A) Transgenic technology

Which of the following is an application of biotechnology in the food industry?

- A) Production of biofuels
- B) Development of pest-resistant crops
- C) Production of antibiotics
- D) Production of genetically modified foods

Answer: D) Production of genetically modified foods

What is the process of using biotechnology to produce a product from living cells called?

- A) Biomanufacturing
- B) Genetic engineering
- C) Bioremediation
- D) Transgenic technology

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Answer: A) Biomanufacturing

Which of the following is an example of a biotechnology product used in the energy industry?

- A) Pesticides
- B) Biofuels
- C) Vaccines
- D) Antibiotics

Answer: B) Biofuels

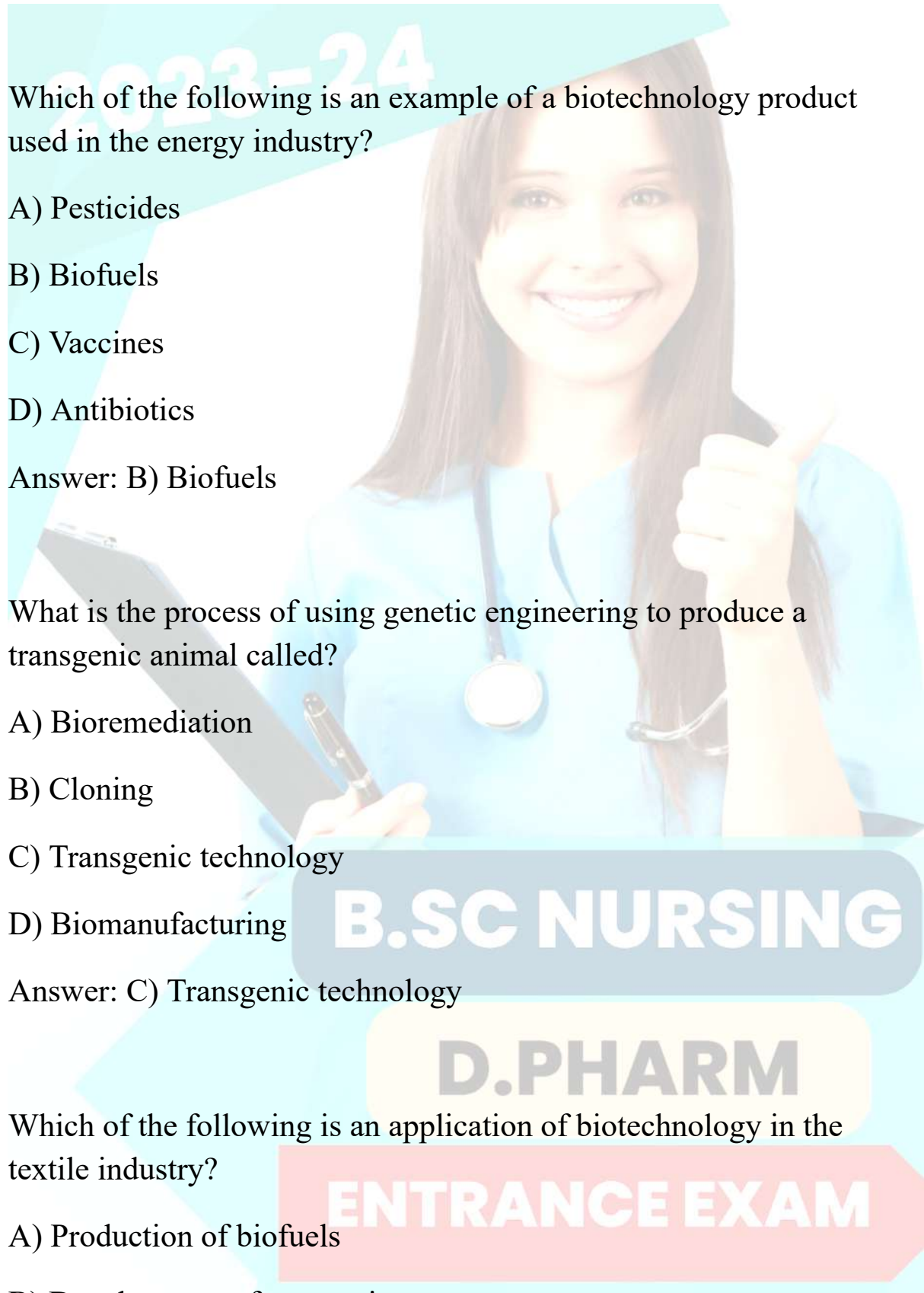
What is the process of using genetic engineering to produce a transgenic animal called?

- A) Bioremediation
- B) Cloning
- C) Transgenic technology
- D) Biomanufacturing

Answer: C) Transgenic technology

Which of the following is an application of biotechnology in the textile industry?

- A) Production of biofuels
- B) Development of pest-resistant crops



C) Production of antibiotics

D) Production of genetically modified cotton

Answer: D) Production of genetically modified cotton

What is the process of using biotechnology to develop new industrial enzymes called?

A) Biomanufacturing

B) Genetic engineering

C) Bioremediation

D) Transgenic technology

Answer: B) Genetic engineering

The process of asexual reproduction in which an organism divides into two or more fragments and each fragment can regenerate into a new organism is known as:

a) Budding

b) Sporulation

c) Fragmentation

d) Vegetative propagation

Answer: c) Fragmentation

Which type of cell division occurs during sexual reproduction in plants?

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a) Mitosis

b) Meiosis

c) Binary fission

d) Budding

Answer: b) Meiosis

Which of the following structures is responsible for the production of female gametes in angiosperms?

a) Stamen

b) Ovary

c) Style

d) Anther

Answer: b) Ovary

The process of the formation of gametes without the fusion of gametes is called:

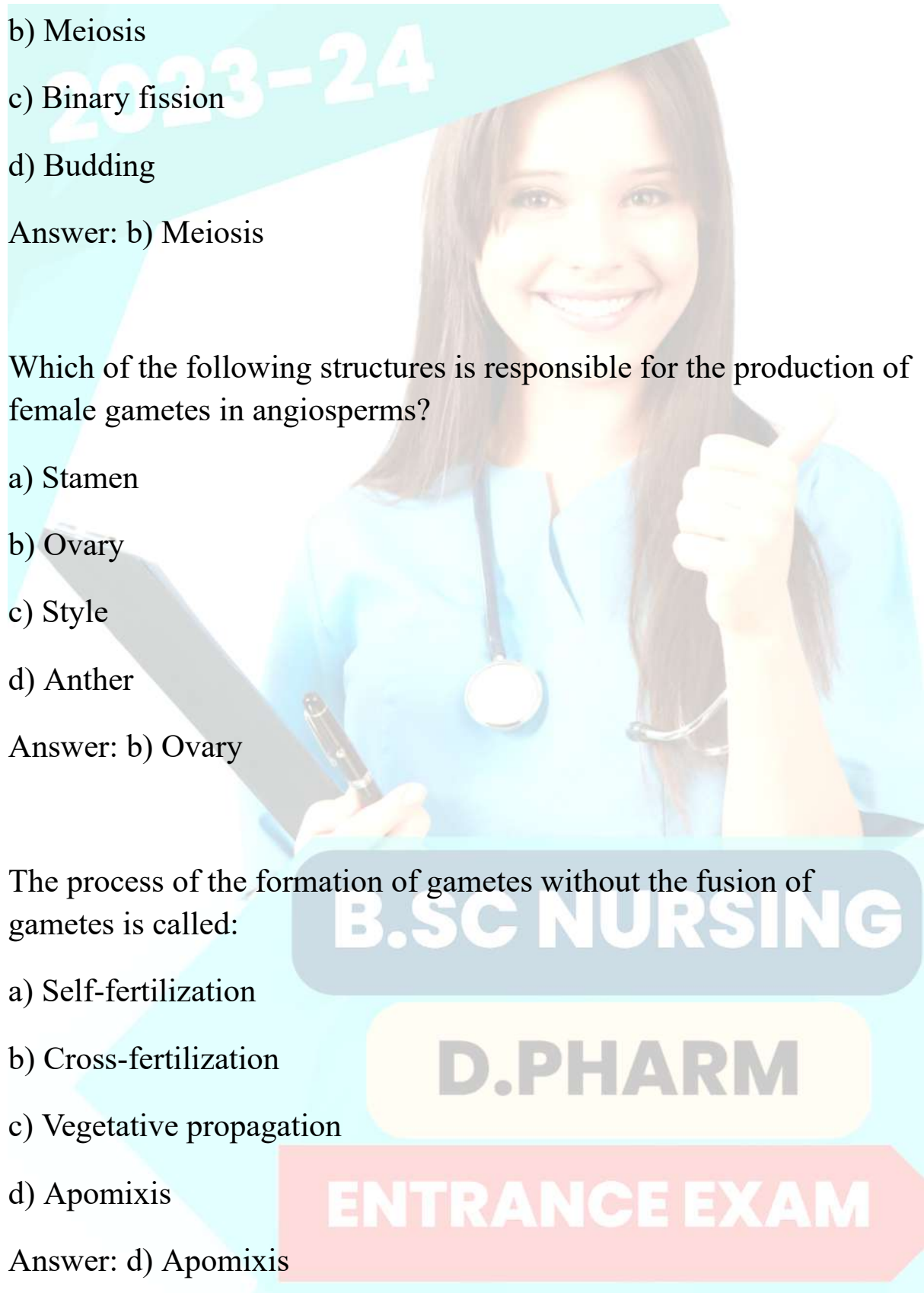
a) Self-fertilization

b) Cross-fertilization

c) Vegetative propagation

d) Apomixis

Answer: d) Apomixis



Which of the following is not a type of asexual reproduction?

- a) Fragmentation
- b) Sporulation
- c) Budding
- d) Pollination

Answer: d) Pollination

Which of the following is not a part of the male reproductive system in angiosperms?

- a) Pollen grain
- b) Anther
- c) Stigma
- d) Filament

Answer: c) Stigma

The transfer of pollen grains from the anther to the stigma of the same flower or a different flower on the same plant is known as:

- a) Self-pollination
- b) Cross-pollination
- c) Fertilization
- d) Apomixis

Answer: a) Self-pollination



The process of fusion of male and female gametes to form a zygote is known as:

- a) Fertilization
- b) Pollination
- c) Self-fertilization
- d) Cross-fertilization

Answer: a) Fertilization

The type of pollination in which pollen grains are transferred from the anther of one plant to the stigma of another plant of the same species is known as:

- a) Self-pollination
- b) Cross-pollination
- c) Apomixis
- d) Vegetative propagation

Answer: b) Cross-pollination

Which of the following is not a part of the female reproductive system in angiosperms?

- a) Ovary
- b) Style

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c) Anther

d) Stigma

Answer: c) Anther

What is the process of formation of new individuals from the vegetative parts of a plant called?

Vegetative propagation.

Which is the most common method of vegetative propagation in plants?

Stem cutting.

What is the term used for the fusion of male and female gametes to form a zygote?

Fertilization.

Which is the male gamete in a flowering plant?

Pollen grain.

What is the process of the transfer of pollen from the anther to the stigma of a flower?

Pollination.

What is the term used for the formation of seeds and fruits from the ovules and ovary, respectively, after fertilization?

Ans: Seed and fruit formation.

In which type of pollination, the pollen grains are transferred from the anthers of a flower to the stigma of another flower of the same plant?

Ans: Geitonogamy.

What is the term used for the transfer of pollen grains from the anthers of a flower to the stigma of a different flower of the same species?

Ans: Cross-pollination.

What is the name of the process of formation of spores in plants?

Ans: Sporogenesis.

Which type of spores are produced by plants that undergo sexual reproduction?

Ans: Haploid spores.

Which type of asexual reproduction is shown by algae and fungi?

- a) Budding
- b) Fragmentation
- c) Binary fission
- d) Multiple fission

Answer: d) Multiple fission

Which of the following is not a mode of asexual reproduction?

- a) Fragmentation
- b) Budding
- c) Binary fission
- d) Gametogenesis

Answer: d) Gametogenesis

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In which type of vegetative propagation, the roots of a plant give rise to new plants?

- a) Stem cutting
- b) Layering
- c) Root division
- d) Grafting

Answer: c) Root division

Which of the following is not a method of artificial vegetative propagation?

- a) Grafting
- b) Layering
- c) Seed germination
- d) Cutting

Answer: c) Seed germination

Which of the following is not a type of sexual reproduction in plants?

- a) Vegetative reproduction
- b) Cross-pollination
- c) Self-pollination
- d) Apomixis

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Answer: a) Vegetative reproduction

What is the name of the process of the fusion of nuclei of two sexually reproducing cells to form a zygote?

- a) Meiosis
- b) Mitosis
- c) Fertilization
- d) Budding

Answer: c) Fertilization

In which type of pollination, the pollen grains are transferred from the anthers of a flower to the stigma of a different flower of the same species?

- a) Self-pollination
- b) Cross-pollination
- c) Geitonogamy
- d) Apomixis

Answer: b) Cross-pollination

Which type of fruit develops from a single ovary of a flower?

- a) Simple fruit
- b) Aggregate fruit

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c) Multiple fruit

d) Accessory fruit

Answer: a) Simple fruit

What is the name of the process of the development of a seed into a new plant?

a) Germination

b) Fertilization

c) Pollination

d) Reproduction

Answer: a) Germination

In which type of seed germination, the cotyledons of the seed remain below the soil surface?

a) Epigeal germination

b) Hypogeal germination

c) Apogeal germination

d) Hypergeal germination

Answer: b) Hypogeal germination

Which nitrogenous base is present in DNA but not in RNA?

a) Cytosine

b) Uracil

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c) Thymine

d) Guanine

Answer: c) Thymine

The process by which DNA is copied into mRNA is called:

a) Translation

b) Replication

c) Transcription

d) Mutation

Answer: c) Transcription

In a DNA double helix, the purines always pair with:

a) Adenine

b) Cytosine

c) Guanine

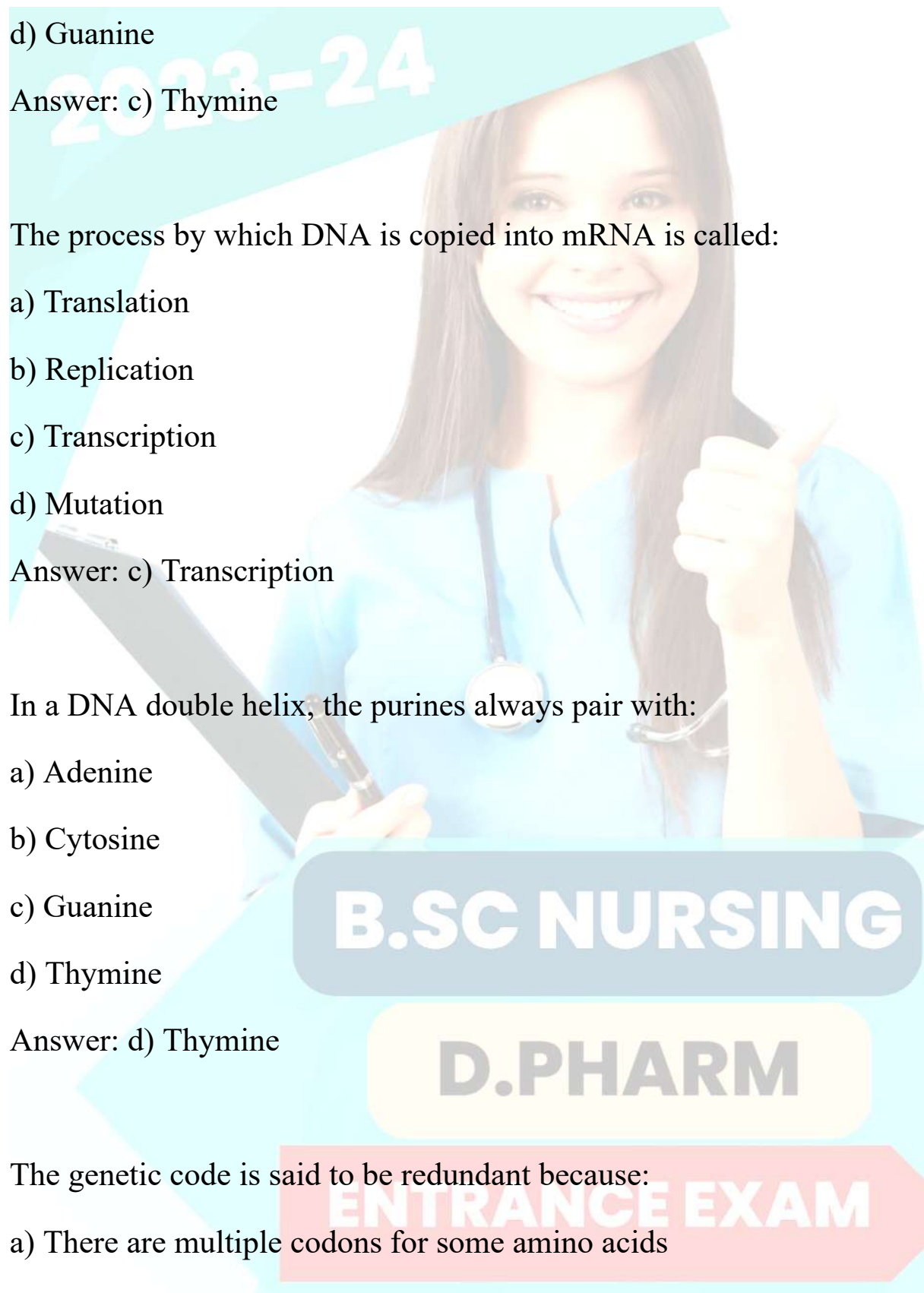
d) Thymine

Answer: d) Thymine

The genetic code is said to be redundant because:

a) There are multiple codons for some amino acids

b) There are only four nucleotides in DNA



c) There are only 20 amino acids used to build proteins

d) The genetic code can be changed by mutations

Answer: a) There are multiple codons for some amino acids

The function of tRNA in protein synthesis is to:

a) Form peptide bonds between amino acids

b) Carry amino acids to the ribosome

c) Read the genetic code in mRNA

d) Terminate protein synthesis

Answer: b) Carry amino acids to the ribosome

Which of the following is NOT a type of point mutation?

a) Missense mutation

b) Nonsense mutation

c) Silent mutation

d) Frameshift mutation

Answer: d) Frameshift mutation

The Hershey-Chase experiment demonstrated that:

a) DNA is the genetic material

b) Proteins are the genetic material

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c) Both DNA and proteins are the genetic material

d) Neither DNA nor proteins are the genetic material

Answer: a) DNA is the genetic material

The process of DNA replication is:

a) Semi-conservative

b) Conservative

c) Dispersive

d) All of the above

Answer: a) Semi-conservative

Which enzyme is responsible for adding new nucleotides to a growing DNA strand during replication?

a) DNA ligase

b) DNA helicase

c) DNA polymerase

d) RNA polymerase

Answer: c) DNA polymerase

A mutation in which a single nucleotide is substituted for another is called a:

a) Deletion mutation

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b) Insertion mutation

c) Substitution mutation

d) Translocation mutation

Answer: c) Substitution mutation

Which of the following is a purine base?

a) Uracil

b) Cytosine

c) Thymine

d) Adenine

Answer: d) Adenine

The process of synthesis of mRNA from DNA is called:

a) Replication

b) Translation

c) Transcription

d) Recombination

Answer: c) Transcription

The genetic material in bacteria is:

a) RNA

b) DNA

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c) Protein

d) Both RNA and DNA

Answer: b) DNA

The nitrogenous base pairings in DNA include:

a) Adenine-Thymine and Cytosine-Uracil

b) Adenine-Uracil and Cytosine-Thymine

c) Adenine-Cytosine and Guanine-Thymine

d) Adenine-Guanine and Cytosine-Thymine

Answer: c) Adenine-Cytosine and Guanine-Thymine

DNA replication is said to be:

a) Semi-conservative

b) Conservative

c) Dispersive

d) None of the above

Answer: a) Semi-conservative

The enzyme responsible for joining Okazaki fragments on the lagging strand during DNA replication is:

a) DNA polymerase III

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b) DNA polymerase I

c) Helicase

d) Ligase

Answer: d) Ligase

Which of the following is a type of point mutation?

a) Deletion

b) Insertion

c) Substitution

d) All of the above

Answer: d) All of the above

In DNA, the direction of synthesis is:

a) 3' to 5'

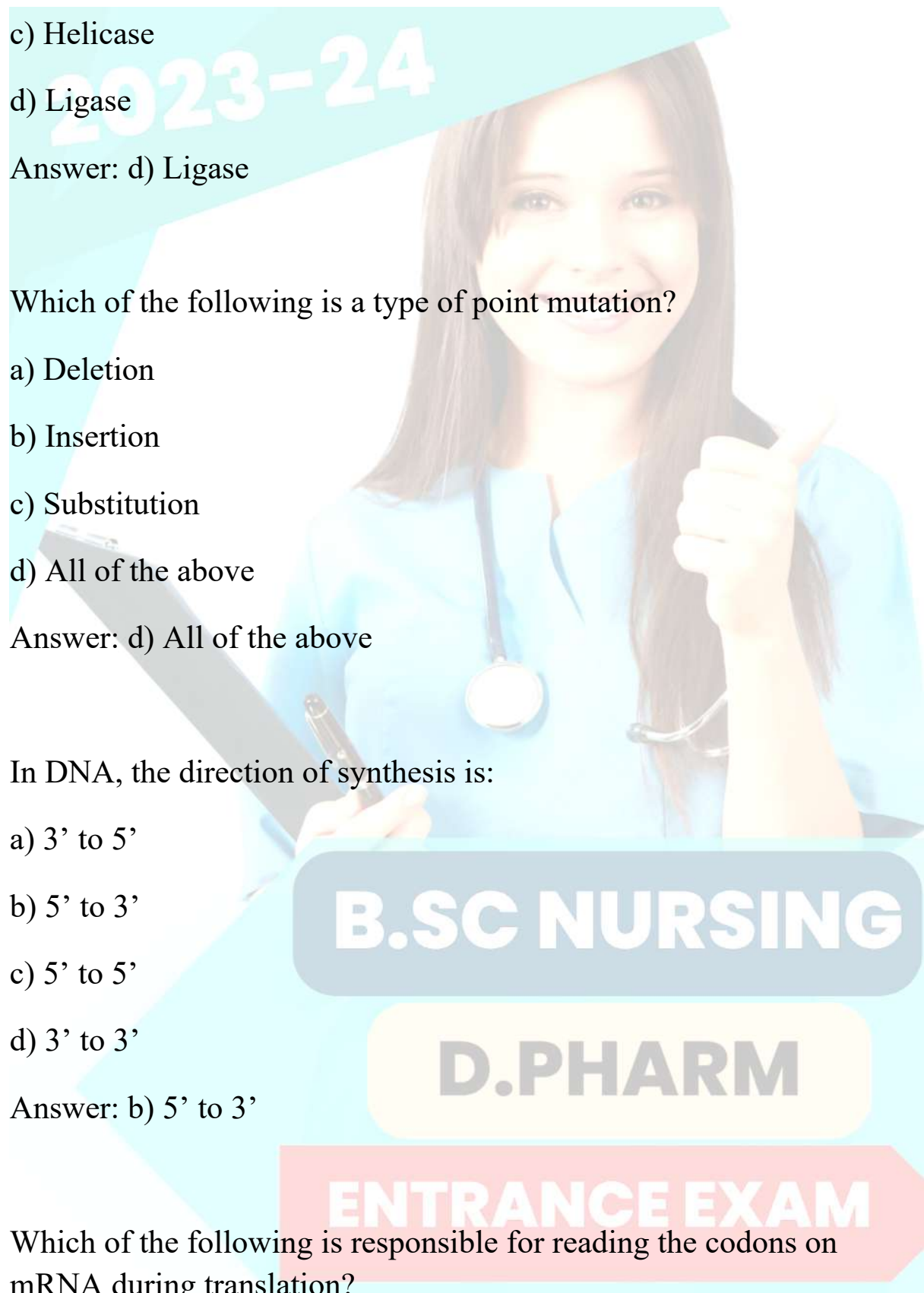
b) 5' to 3'

c) 5' to 5'

d) 3' to 3'

Answer: b) 5' to 3'

Which of the following is responsible for reading the codons on mRNA during translation?



a) tRNA

b) rRNA

c) mRNA

d) None of the above

Answer: a) tRNA

The DNA molecule has a:

a) Double helix structure

b) Single strand structure

c) Linear structure

d) None of the above

Answer: a) Double helix structure

Which nitrogenous base is not present in RNA?

A) Adenine

B) Uracil

C) Guanine

D) Thymine

Answer: D) Thymine

Who discovered the structure of DNA?

A) Rosalind Franklin

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B) James Watson

C) Francis Crick

D) All of the above

Answer: D) All of the above

Which enzyme is responsible for joining Okazaki fragments?

A) DNA polymerase I

B) DNA polymerase II

C) DNA polymerase III

D) DNA ligase

Answer: D) DNA ligase

What is the function of the telomeres in DNA?

A) To protect the ends of the chromosomes

B) To promote recombination

C) To regulate gene expression

D) To increase the rate of DNA replication

Answer: A) To protect the ends of the chromosomes

In eukaryotes, DNA replication occurs in the:

A) Nucleus

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B) Mitochondria

C) Chloroplasts

D) Cytoplasm

Answer: A) Nucleus

Which type of RNA carries amino acids to the ribosome during translation?

A) mRNA

B) tRNA

C) rRNA

D) snRNA

Answer: B) tRNA

Which of the following is a post-transcriptional modification of mRNA in eukaryotes?

A) Addition of a poly-A tail

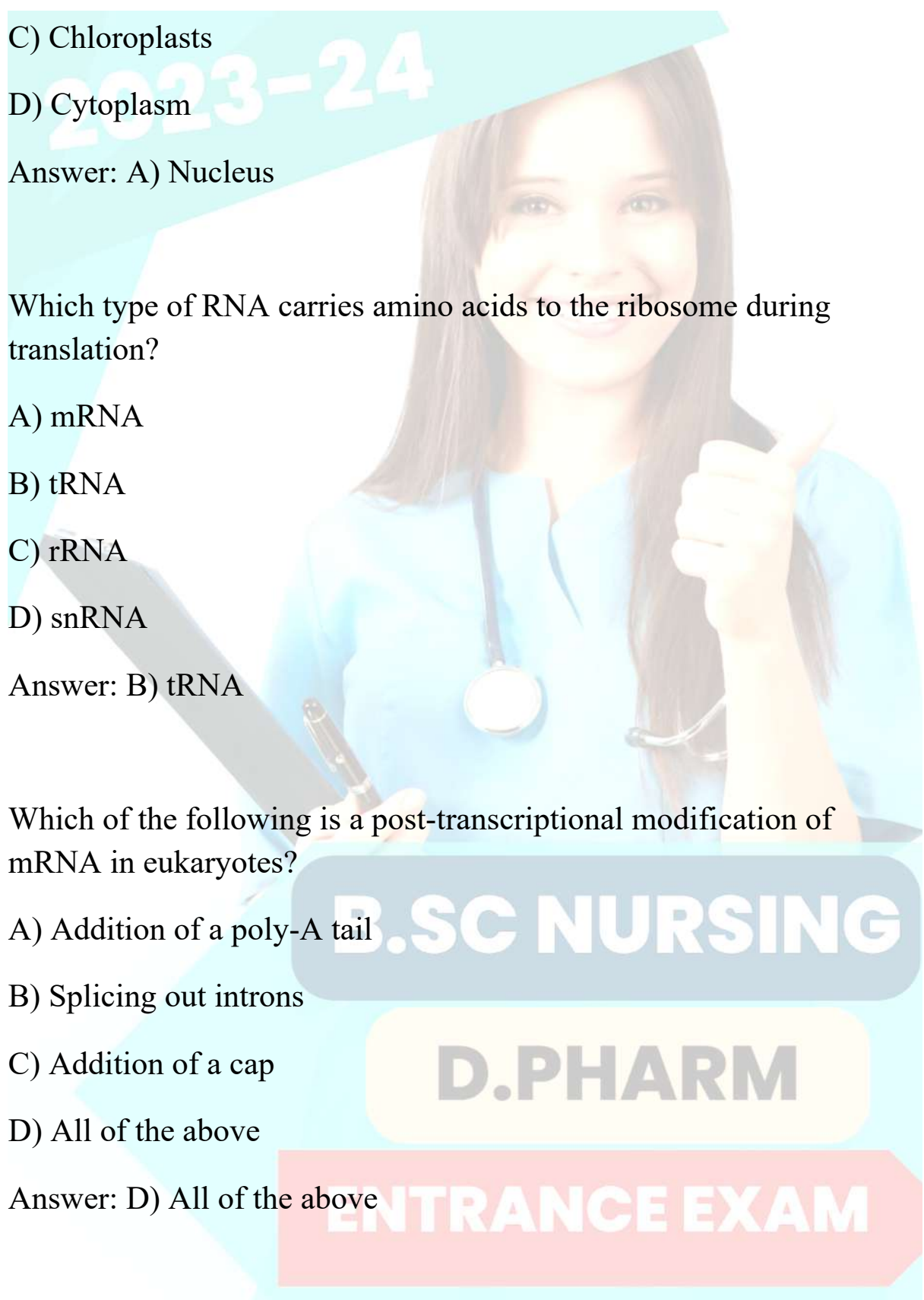
B) Splicing out introns

C) Addition of a cap

D) All of the above

Answer: D) All of the above

What is the function of a promoter in DNA?



A) To initiate DNA replication

B) To initiate transcription

C) To regulate gene expression

D) To bind RNA polymerase

Answer: B) To initiate transcription

Which of the following is a method of DNA sequencing?

A) Polymerase Chain Reaction (PCR)

B) Gel electrophoresis

C) Sanger sequencing

D) All of the above

Answer: C) Sanger sequencing

Which of the following is not a function of DNA?

A) Storage of genetic information

B) Replication

C) Transcription

D) Translation

Answer: D) Translation

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What is the function of DNA polymerase III in DNA replication?

- a) synthesis of RNA primers
- b) initiation of DNA synthesis
- c) proofreading of DNA synthesis
- d) synthesis of the leading strand and Okazaki fragments

Answer: d) synthesis of the leading strand and Okazaki fragments

What is the role of helicase in DNA replication?

- a) it adds RNA primers to the template strand
- b) it untwists the double helix and separates the two strands of DNA
- c) it synthesizes a new DNA strand by adding nucleotides to the 3' end of the existing strand
- d) it joins the Okazaki fragments together

Answer: b) it untwists the double helix and separates the two strands of DNA

Which enzyme is responsible for joining Okazaki fragments in the lagging strand of DNA replication?

- a) DNA polymerase I
- b) DNA ligase
- c) helicase

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d) primase

Answer: b) DNA ligase

What is the function of topoisomerase in DNA replication?

- a) to unwind the DNA helix
- b) to prevent supercoiling of the DNA molecule
- c) to synthesize RNA primers
- d) to join Okazaki fragments together

Answer: b) to prevent supercoiling of the DNA molecule

Which of the following is the correct order of events in DNA replication?

- a) initiation, elongation, termination
- b) elongation, initiation, termination
- c) termination, initiation, elongation
- d) initiation, termination, elongation

Answer: a) initiation, elongation, termination

What is the function of the TATA box in eukaryotic gene transcription?

- a) to bind RNA polymerase to the promoter region
- b) to initiate DNA replication

c) to remove introns from the pre-mRNA transcript

d) to export mRNA from the nucleus to the cytoplasm

Answer: a) to bind RNA polymerase to the promoter region

Which enzyme is responsible for adding the 5' cap to eukaryotic mRNA?

a) RNA polymerase II

b) reverse transcriptase

c) RNA primase

d) guanylyltransferase

Answer: d) guanylyltransferase

Which of the following is the process by which introns are removed from pre-mRNA in eukaryotic cells?

a) splicing

b) translation

c) transcription

d) replication

Answer: a) splicing

What is the role of tRNA in translation?

a) to carry amino acids to the ribosome

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b) to bind to the promoter region of DNA

c) to transcribe DNA into mRNA

d) to cleave pre-mRNA into mature mRNA

Answer: a) to carry amino acids to the ribosome

Which of the following is responsible for initiating translation in eukaryotic cells?

a) the small subunit of the ribosome

b) the large subunit of the ribosome

c) RNA polymerase

d) tRNA

Answer: a) the small subunit of the ribosome

Which of the following is the primary cause of biodiversity loss?

a) Pollution

b) Climate change

c) Habitat destruction

d) Overexploitation

Answer: c) Habitat destruction

Which of the following is the largest biodiversity hotspot in the world?

a) Amazon rainforest

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b) Coral Triangle

c) Western Ghats

d) Sundarbans

Answer: a) Amazon rainforest

Which of the following is an example of in-situ conservation?

a) Zoo

b) Botanical garden

c) Wildlife sanctuary

d) Seed bank

Answer: c) Wildlife sanctuary

Which of the following is the most important criteria for the selection of an area for in-situ conservation?

a) High endemism

b) Large population of endangered species


c) Large area

d) Proximity to human settlements

Answer: b) Large population of endangered species

Which of the following is an example of ex-situ conservation?



- 
- a) National park
b) Wildlife sanctuary
c) Seed bank
d) Biosphere reserve

Answer: c) Seed bank

Which of the following is the most important component of biodiversity?

- a) Species diversity
b) Genetic diversity
c) Ecosystem diversity
d) All of the above

Answer: d) All of the above

Which of the following is an example of a critically endangered species?

- a) Snow leopard
b) Indian rhinoceros
c) Giant panda
d) Polar bear

Answer: c) Giant panda

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Which of the following is not a threat to biodiversity?

- a) Habitat destruction
- b) Climate change
- c) Ex-situ conservation
- d) Invasive species

Answer: c) Ex-situ conservation

Which of the following is not a type of biodiversity?

- a) Agricultural biodiversity
- b) Species diversity
- c) Cultural diversity
- d) Geological diversity

Answer: d) Geological diversity

Which of the following is a major cause of the decline in the population of amphibians?

- a) Habitat loss
- b) Pollution
- c) Climate change
- d) All of the above

Answer: d) All of the above

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Which of the following is the most important role of biodiversity in an ecosystem?

- a) Providing ecosystem services
- b) Providing aesthetic value
- c) Providing economic value
- d) Providing cultural value

Answer: a) Providing ecosystem services

Which of the following is the international treaty aimed at conserving biodiversity?

- a) UNFCCC
- b) CBD
- c) UNCCD
- d) CITES

Answer: b) CBD

Which of the following is not a type of protected area?

- a) National park
- b) Wildlife sanctuary
- c) Biosphere reserve
- d) Seed bank

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Answer: d) Seed bank

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Which of the following is not a method of ex-situ conservation?

- a) Botanical garden
- b) Cryopreservation
- c) Wildlife sanctuary
- d) Seed bank

Answer: c) Wildlife sanctuary

Which of the following is the most threatened ecosystem?

- a) Coral reefs
- b) Tropical rainforests
- c) Polar ice caps
- d) Deserts

Answer: a) Coral reefs

Which of the following is the most important factor contributing to the extinction of species?

- a) Natural disasters
- b) Habitat destruction
- c) Overexploitation

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d) Climate change

Answer: b) Habitat destruction

Which of the following is an example of a keystone species?

a) Elephant

b) Tiger

c) Bee

d) All of the above

Answer: c) Bee

Which of the following is a method of in-situ conservation?

a) Botanical garden

b) Seed bank

c) National park

d) Cryopreservation

Answer: c) National park

Which of the following is an example of a direct economic value provided by biodiversity?

a) Climate regulation

b) Soil formation

c) Medicinal resources

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d) Nutrient cycling

Which of the following is an example of an invasive species?

- a) Lion
- b) Zebra
- c) Bison
- d) Elephant

Answer: b) Zebra

Which of the following is an example of a biosphere reserve in India?

- a) Nanda Devi Biosphere Reserve
- b) Corbett National Park
- c) Gir Wildlife Sanctuary
- d) Kaziranga National Park

Answer: a) Nanda Devi Biosphere Reserve

Which of the following is the most important action for conserving biodiversity?

- a) Establishing protected areas
- b) Reducing greenhouse gas emissions
- c) Promoting sustainable development
- d) All of the above

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Answer: d) All of the above

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Which of the following is the most important ecosystem service provided by forests?

- a) Climate regulation
- b) Soil formation
- c) Nutrient cycling
- d) Water regulation

Answer: d) Water regulation

Which of the following is an example of a flagship species?

- a) Gorilla
- b) Elephant
- c) Tiger
- d) All of the above

Answer: d) All of the above

Which of the following is not a type of biodiversity hotspot?

- a) Mediterranean basin
- b) Eastern Himalayas
- c) African savanna

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d) Madagascar and Indian Ocean islands

Answer: c) African savanna

Which of the following is not a type of ecosystem?

- a) Aquatic ecosystem
- b) Terrestrial ecosystem
- c) Atmospheric ecosystem
- d) Urban ecosystem

Answer: c) Atmospheric ecosystem

Which of the following is the most effective way to reduce greenhouse gas emissions from the transportation sector?

- a) Encouraging the use of public transportation
- b) Promoting electric vehicles
- c) Promoting biofuels
- d) All of the above

Answer: d) All of the above

Which of the following is an example of a CITES-listed species?

- a) Tiger
- b) Giant panda

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c) Indian rhinoceros

d) All of the above

Answer: d) All of the above

Which of the following is an example of a non-renewable resource?

a) Forest

b) Coal

c) Water

d) Solar energy

Answer: b) Coal

Which of the following is the most important factor contributing to the loss of biodiversity in aquatic ecosystems?

a) Overfishing

b) Habitat destruction

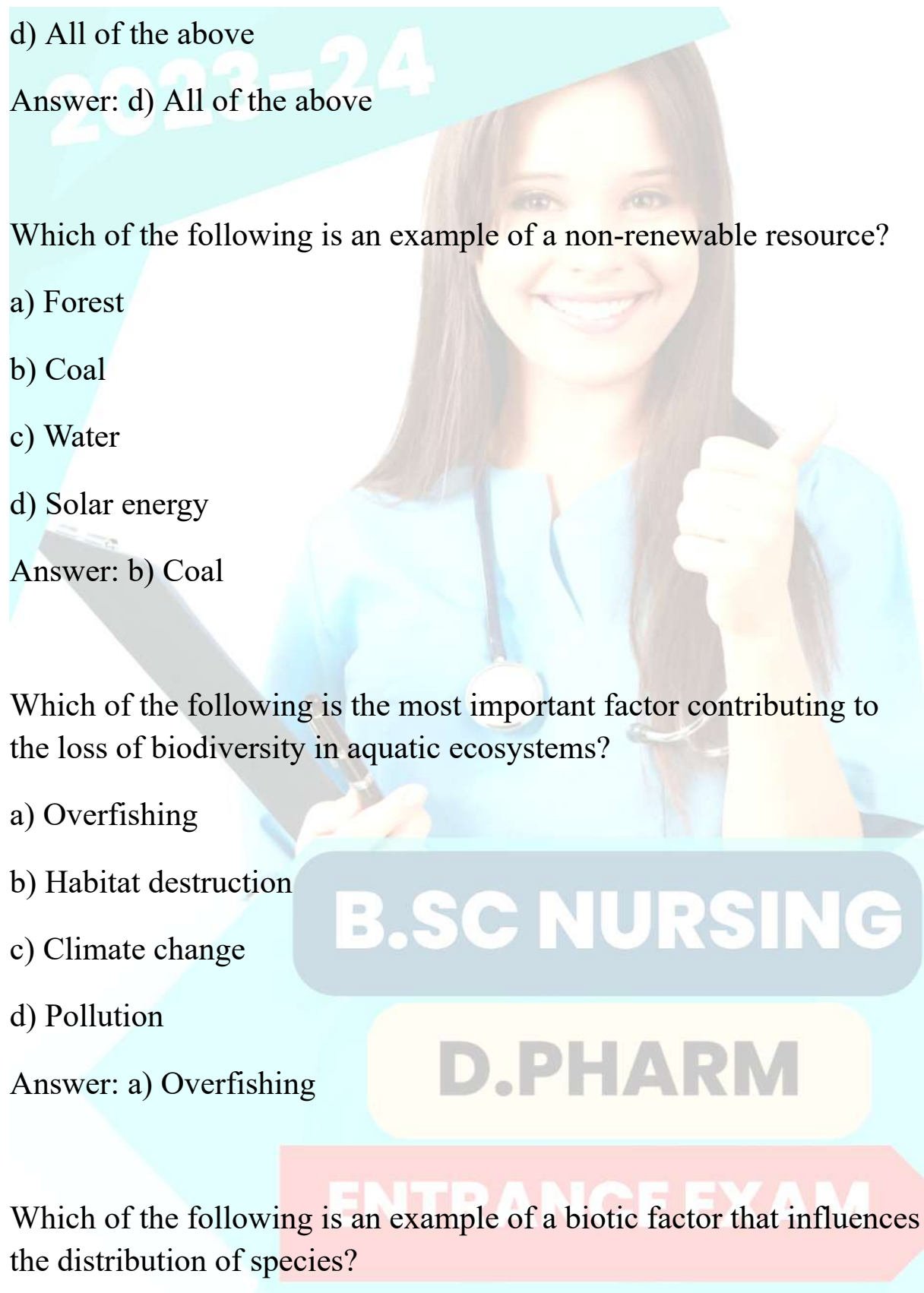
c) Climate change

d) Pollution

Answer: a) Overfishing

Which of the following is an example of a biotic factor that influences the distribution of species?

a) Climate



b) Soil type

c) Topography

d) Predation

Answer: d) Predation

Which of the following is the most important international treaty aimed at reducing greenhouse gas emissions?

a) CBD

b) UNFCCC

c) UNCCD

d) CITES

Answer: b) UNFCCC

Which of the following is an example of a wetland ecosystem?

a) Coral reef

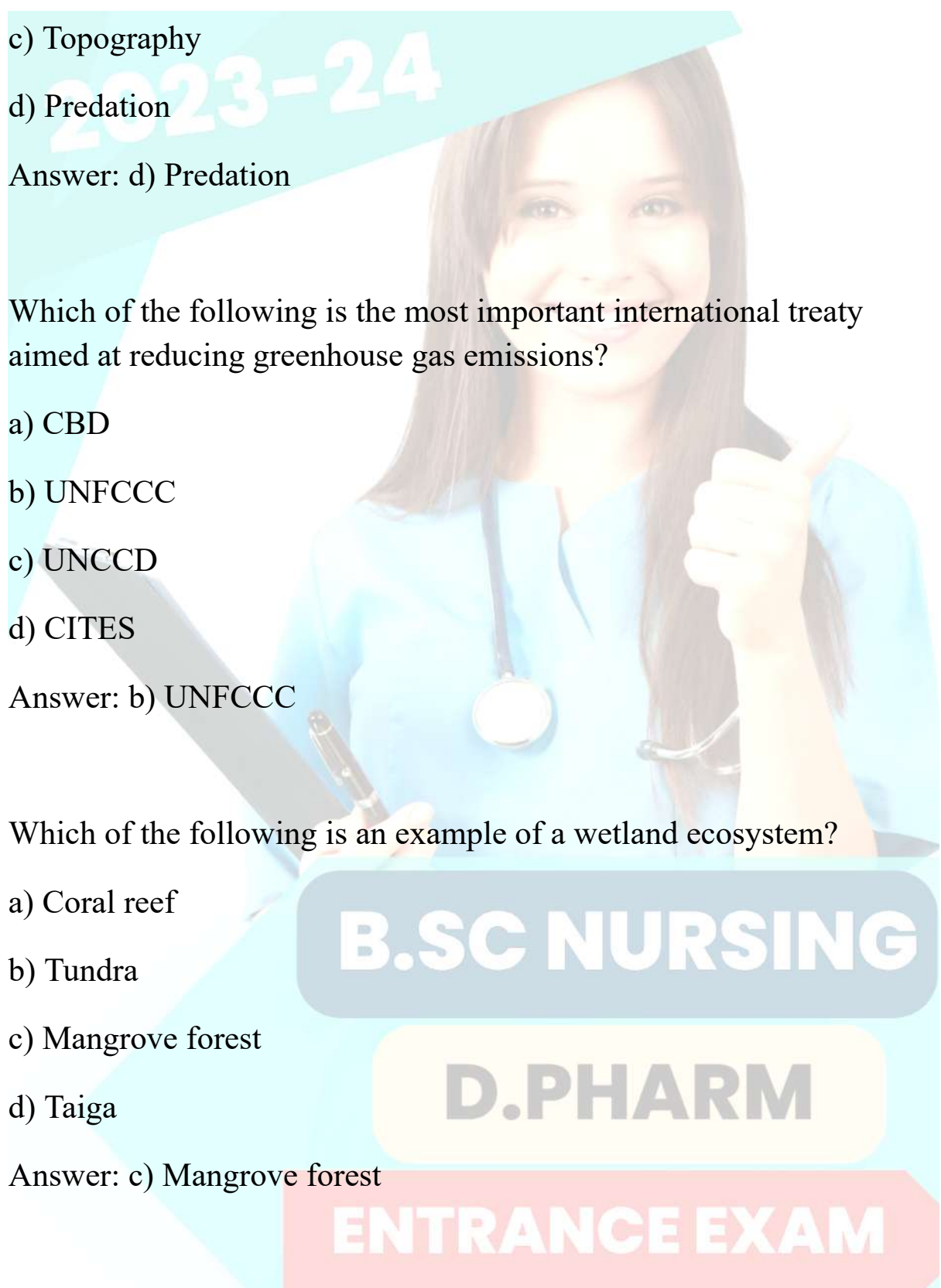
b) Tundra

c) Mangrove forest

d) Taiga

Answer: c) Mangrove forest

Which of the following is the most effective way to reduce the impact of invasive species on biodiversity?



- a) Promoting the use of pesticides
- b) Removing the invasive species
- c) Introducing a predator for the invasive species
- d) None of the above

Answer: b) Removing the invasive species

Which of the following is an example of a cultural service provided by biodiversity

Which of the following is not a type of protected area?

- a) National park
- b) Wildlife sanctuary
- c) Biosphere reserve
- d) None of the above

Answer: d) None of the above

Which of the following is not a major cause of habitat destruction?

- a) Deforestation
- b) Urbanization
- c) Climate change

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d) Agriculture

Answer: c) Climate change

Which of the following is an example of an extinct species?

- a) Dodo
- b) Quagga
- c) Passenger pigeon
- d) All of the above

Answer: d) All of the above

Which of the following is an example of an ex-situ conservation method?

- a) National park
- b) Wildlife sanctuary
- c) Seed bank
- d) Biosphere reserve

Answer: c) Seed bank

Which of the following is the most important factor contributing to the loss of biodiversity in terrestrial ecosystems?

- a) Climate change
- b) Habitat destruction

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c) Overhunting

d) Pollution

Answer: b) Habitat destruction

Which of the following is an example of a keystone species?

a) Elephant

b) Beaver

c) Starfish

d) All of the above

Answer: d) All of the above

Which of the following is an example of a renewable resource?

a) Oil

b) Timber

c) Coal

d) Solar energy

Answer: d) Solar energy

Which of the following is the most important action for reducing the impact of climate change on biodiversity?

a) Promoting renewable energy sources

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b) Reducing greenhouse gas emissions

c) Establishing protected areas

d) Promoting sustainable development

Answer: b) Reducing greenhouse gas emissions

Which of the following is an example of a provisioning service provided by biodiversity?

a) Water purification

b) Carbon sequestration

c) Nutrient cycling

d) Timber production

Answer: d) Timber production

Which of the following is an example of an in-situ conservation method?

a) Seed bank

b) Botanical garden

c) National park

d) None of the above

Answer: c) National park

Which of the following is not a major threat to marine biodiversity?

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a) Overfishing

b) Ocean acidification

c) Habitat destruction

d) Land use change

Answer: d) Land use change

Which of the following is an example of a genetic resource provided by biodiversity?

a) Medicinal plants

b) Timber

c) Fossil fuels

d) Crop plants

Answer: d) Crop plants

Which of the following is not a component of biodiversity?

a) Genetic diversity

b) Species diversity

c) Ecosystem diversity

d) Environmental diversity

Answer: d) Environmental diversity

Which of the following is not a strategy for conservation of biodiversity?



a) In-situ conservation

b) Ex-situ conservation

c) Habitat destruction

d) Sustainable use

Answer: c) Habitat destruction

Which of the following is not an example of a hot spot of biodiversity?

a) Amazon rainforest

b) Madagascar

c) Arctic tundra

d) Western Ghats

Answer: c) Arctic tundra

Which of the following is not a benefit of biodiversity?

a) Provisioning services

b) Cultural services

c) Regulating services

d) Industrial services

Answer: d) Industrial services

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Which of the following is an example of a cultural service provided by biodiversity?

- a) Timber production
- b) Ecotourism
- c) Soil formation
- d) Water purification

Answer: b) Ecotourism

Which of the following is an example of an invasive species?

- a) Zebra mussel
- b) Panda bear
- c) Bengal tiger
- d) Bald eagle

Answer: a) Zebra mussel

Which of the following is not a threat to biodiversity caused by human activities?

- a) Climate change
- b) Pollution
- c) Natural disasters
- d) Habitat destruction

Answer: c) Natural disasters

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Which of the following is not an example of a regulating service provided by biodiversity?

- a) Air quality regulation
- b) Climate regulation
- c) Water regulation
- d) Timber production

Answer: d) Timber production

Which of the following is an example of an endangered species?

- a) Blue whale
- b) African elephant
- c) Mountain gorilla
- d) All of the above

Answer: d) All of the above

Which of the following is not a principle of sustainable development?

- a) Social equity
- b) Economic growth
- c) Environmental protection
- d) Intergenerational equity

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Answer: b) Economic growth

Lastly, we are wishing you all a magnificent success in the forthcoming B.Sc Nursing/ D.pharm Entrance Examinations and have a prosperous career ahead.



Biology (Zoology)

Which one of the following is a primary lymphoid organ in humans?

- A. Spleen
- B. Thymus
- C. Lymph nodes
- D. Tonsils

❖ Answer: B. Thymus

The site of exchange of gases in fish is:

- A. Lungs
- B. Skin
- C. Gills
- D. Buccal cavity

❖ Answer: C. Gills

In which type of fertilization, external fertilization occurs?

- A. Amphimixis
- B. Autogamy
- C. Allogamy
- D. Both A and C

❖ Answer: C. Allogamy

Name the enzyme present in the pancreatic juice:

- A. Pepsin
- B. Trypsin
- C. Renin
- D. Amylase

❖ Answer: B. Trypsin

Which one of the following is a sessile organism?

- A. Octopus
- B. Sea urchin
- C. Sea anemone
- D. Starfish

❖ Answer: C. Sea anemone

What is the function of the semicircular canals in the ear?

- A. Hearing
- B. Balancing
- C. Smelling
- D. Taste

❖ Answer: B. Balancing

The type of connective tissue that is found in the pinna of the ear is:

- A. Adipose tissue
- B. Dense connective tissue
- C. Areolar tissue
- D. Elastic cartilage

❖ Answer: D. Elastic cartilage

Which hormone is responsible for milk production in mammals?

- A. Estrogen
- B. Progesterone
- C. Prolactin
- D. Oxytocin

❖ Answer: C. Prolactin

Which one of the following is not a characteristic feature of mammals?

- A. Presence of hair or fur
- B. Presence of mammary glands
- C. Presence of diaphragm
- D. Presence of gills for respiration

❖ Answer: D. Presence of gills for respiration

Which of the following is the functional unit of the nervous system?

- A. Neuron
- B. Nephron
- C. Osteon
- D. None of the above

❖ Answer: A. Neuron

Which one of the following is a vital center in the medulla oblongata?

- A. Respiratory center
- B. Visual center
- C. Auditory center
- D. Taste center

❖ Answer: A. Respiratory center

Which of the following is a type of muscle tissue found in the walls of hollow organs such as the stomach and intestines?

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: B. Smooth muscle

Which one of the following is not a component of blood?

- A. Platelets
- B. Leukocytes
- C. Erythrocytes
- D. Adipocytes

❖ Answer: D. Adipocytes

Which one of the following is a steroid hormone?

- A. Insulin
- B. Estrogen
- C. Thyroxine
- D. Glucagon

❖ Answer: B. Estrogen

In humans, the exchange of gases between blood and tissues occurs in:

- A. Lungs
- B. Heart
- C. Kidneys
- D. Capillaries

❖ Answer: D. Capillaries

The scientific name of the human being is:

- A. Homo sapiens
- B. Gorilla gorilla
- C. Panthera leo
- D. Canis lupus

❖ Answer: A. Homo sapiens

Which one of the following is not a characteristic feature of reptiles?

- A. Cold-bloodedness
- B. Presence of scales
- C. Presence of four limbs
- D. Ability to breathe through skin

❖ Answer: C. Presence of four limbs

The enzyme responsible for the conversion of pepsinogen to pepsin is:

- A. Trypsin
- B. Lipase
- C. HCl
- D. Bile

❖ Answer: C. HCl

Which of the following is not a part of the female reproductive system?

- A. Ovary
- B. Uterus
- C. Vas deferens
- D. Vagina

❖ Answer: C. Vas deferens

The study of animal behavior is known as:

- A. Ethology
- B. Ecology
- C. Zoology
- D. Physiology

❖ Answer: A. Ethology

Which one of the following is not a type of leukocyte?

- A. Neutrophil
- B. Eosinophil
- C. Lymphocyte
- D. Thrombocyte

❖ Answer: D. Thrombocyte (it is a type of blood cell, but not a leukocyte)

Which one of the following is not a function of the human skin?

- A. Protection from mechanical injury
- B. Production of vitamin D
- C. Regulation of body temperature
- D. Production of digestive enzymes

❖ Answer: D. Production of digestive enzymes

Which one of the following is not a type of connective tissue?

- A. Bone
- B. Cartilage
- C. Muscle
- D. Blood

❖ Answer: C. Muscle (it is a type of tissue, but not connective tissue)

The process by which green plants make their own food is called:

- A. Respiration
- B. Digestion
- C. Photosynthesis
- D. Fermentation

❖ Answer: C. Photosynthesis

The protein that is responsible for the contraction of muscle fibers is:

- A. Actin
- B. Myosin
- C. Collagen
- D. Keratin

❖ Answer: B. Myosin

Which one of the following is not a component of the female reproductive system?

- A. Fallopian tubes
- B. Cervix
- C. Prostate gland
- D. Ovary

❖ Answer: C. Prostate gland (it is a part of the male reproductive system)

The process of conversion of glucose into pyruvic acid is known as:

- A. Glycolysis
- B. Krebs cycle
- C. Electron transport chain
- D. None of the above

❖ Answer: A. Glycolysis

Which one of the following is not a characteristic feature of birds?

- A. Presence of feathers
- B. Warm-bloodedness
- C. Presence of four limbs
- D. Ability to fly

❖ Answer: C. Presence of four limbs (birds have two limbs, their wings)

The primary function of the nephron in the kidney is:

- A. Production of urine
- B. Regulation of blood pressure
- C. Production of hormones
- D. Digestion of proteins

❖ Answer: A. Production of urine

The process of breakdown of glucose into water and carbon dioxide in the presence of oxygen is known as:

- A. Fermentation
- B. Respiration
- C. Photosynthesis
- D. None of the above

❖ Answer: B. Respiration

Which one of the following is not a type of bone in the human body?

- A. Long bone
- B. Short bone
- C. Flat bone
- D. Round bone

❖ Answer: D. Round bone (there is no such classification of bones as "round" bone)

The hormone responsible for the regulation of blood sugar levels is:

- A. Insulin
- B. Glucagon
- C. Thyroxine
- D. Estrogen

❖ Answer: A. Insulin

The organ that produces bile is the:

- A. Stomach
- B. Liver
- C. Pancreas
- D. Gallbladder

❖ Answer: B. Liver

The type of cell division that produces haploid gametes from diploid cells is known as:

- A. Mitosis
- B. Meiosis
- C. Cytokinesis
- D. Interphase

❖ Answer: B. Meiosis

Which one of the following is not a function of the human circulatory system?

- A. Transport of nutrients
- B. Transport of oxygen
- C. Transport of wastes
- D. Production of hormones

❖ Answer: D. Production of hormones (the circulatory system transports hormones, but does not produce them)

The process of the breakdown of fats into smaller molecules is known as:

- A. Glycolysis
- B. Lipolysis

C. Fermentation

D. Oxidative phosphorylation

❖ Answer: B. Lipolysis

The structure that connects the muscles to bones is called the:

A. Tendon

B. Ligament

C. Cartilage

D. Synovial fluid

❖ Answer: A. Tendon

The hormone responsible for the development of secondary sexual characteristics in males is:

A. Estrogen

B. Progesterone

C. Testosterone

D. Follicle-stimulating hormone (FSH)

❖ Answer: C. Testosterone

The enzyme responsible for the breakdown of starch into glucose is:

A. Lipase

B. Amylase

C. Protease

D. Maltase

❖ Answer: B. Amylase

The process of exchange of gases between blood and lungs is called:

A. Inspiration

B. Expiration

C. Respiration

D. Ventilation

❖ Answer: C. Respiration

The type of tissue that lines the interior surface of organs and body cavities is called:

A. Epithelial tissue

B. Connective tissue

C. Muscle tissue

D. Nervous tissue

❖ Answer: A. Epithelial tissue

The hormone that stimulates milk production in lactating females is:

A. Oxytocin

B. Prolactin

C. Estrogen

D. Progesterone

❖ Answer: B. Prolactin

The process of digestion of proteins begins in the:

A. Mouth

- B. Stomach
- C. Small intestine
- D. Large intestine

❖ Answer: B. Stomach

The process of elimination of urine from the body is called:

- A. Urination
- B. Defecation
- C. Excretion
- D. Secretion

❖ Answer: A. Urination

The type of muscle that is under involuntary control is:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: B. Smooth muscle

The hormone that stimulates the production of red blood cells in bone marrow is:

- A. Estrogen
- B. Testosterone
- C. Thyroid hormone
- D. Erythropoietin

❖ Answer: D. Erythropoietin

The type of gland that produces and secretes hormones directly into the bloodstream is called:

- A. Exocrine gland
- B. Endocrine gland
- C. Sweat gland
- D. Sebaceous gland

❖ Answer: B. Endocrine gland

The process of conversion of food into simpler forms that can be absorbed and utilized by the body is called:

- A. Digestion
- B. Absorption
- C. Secretion
- D. Excretion

❖ Answer: A. Digestion

The organ that filters blood and removes waste products is the:

- A. Liver
- B. Kidney
- C. Pancreas
- D. Spleen

❖ Answer: B. Kidney

The process of breaking down glucose into lactic acid in the absence of oxygen is called:

- A. Glycolysis
- B. Respiration
- C. Fermentation
- D. Oxidative phosphorylation

❖ Answer: C. Fermentation

The process of exchange of gases between blood and body tissues is called:

- A. Inspiration
- B. Expiration
- C. Respiration
- D. Ventilation

❖ Answer: C. Respiration

The hormone responsible for the regulation of water balance in the body is:

- A. Antidiuretic hormone (ADH)
- B. Thyroxine
- C. Insulin
- D. Glucagon

❖ Answer: A. Antidiuretic hormone (ADH)

The type of joint that allows for free movement in all directions is called:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Fixed joint

❖ Answer: A. Ball-and-socket joint

The process of release of an egg from the ovary is called:

- A. Fertilization
- B. Menstruation
- C. Ovulation
- D. Implantation

❖ Answer: C. Ovulation

The type of blood vessels that carry blood away from the heart is called:

- A. Veins
- B. Capillaries
- C. Arteries
- D. Lymphatic vessels

❖ Answer: C. Arteries

The enzyme responsible for the breakdown of fats in the small intestine is:

- A. Lipase
- B. Amylase
- C. Protease
- D. Maltase

❖ Answer: A. Lipase

The type of muscle that is under voluntary control is:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: A. Skeletal muscle

The hormone responsible for the regulation of calcium levels in the body is:

- A. Parathyroid hormone (PTH)
- B. Thyroid hormone
- C. Adrenaline
- D. Growth hormone

❖ Answer: A. Parathyroid hormone (PTH)

The organ that stores bile is the:

- A. Stomach
- B. Liver
- C. Pancreas
- D. Gallbladder

❖ Answer: D. Gallbladder

The process of breakdown of glucose into carbon dioxide and water with the release of energy is called:

- A. Glycolysis
- B. Respiration
- C. Fermentation
- D. Oxidative phosphorylation

❖ Answer: B. Respiration

The hormone responsible for the development of male secondary sexual characteristics is:

- A. Testosterone
- B. Estrogen
- C. Progesterone
- D. Oxytocin

❖ Answer: A. Testosterone

The type of tissue that connects muscle to bone is called:

- A. Epithelial tissue
- B. Connective tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: B. Connective tissue

The organ responsible for the production of insulin and glucagon is the:

- A. Liver
- B. Pancreas

C. Kidney

D. Spleen

❖ Answer: B. Pancreas

The process of movement of air into and out of the lungs is called:

A. Ventilation

B. Respiration

C. Inspiration

D. Expiration

❖ Answer: A. Ventilation

The hormone responsible for the regulation of blood sugar levels in the body is:

A. Insulin

B. Glucagon

C. Thyroxine

D. Adrenaline

❖ Answer: A. Insulin

The type of joint that allows for bending and straightening of a limb is called:

A. Ball-and-socket joint

B. Hinge joint

C. Pivot joint

D. Fixed joint

❖ Answer: B. Hinge joint

The type of muscle that makes up the walls of internal organs is called:

A. Skeletal muscle

B. Smooth muscle

C. Cardiac muscle

D. Striated muscle

❖ Answer: B. Smooth muscle

The hormone responsible for the regulation of the sleep-wake cycle is:

A. Melatonin

B. Cortisol

C. Serotonin

D. Dopamine

❖ Answer: A. Melatonin

The organ responsible for the production of urine is the:

A. Kidney

B. Liver

C. Pancreas

D. Spleen

❖ Answer: A. Kidney

The process of removal of undigested waste products from the body is called:

A. Digestion

B. Absorption

C. Secretion

D. Excretion

❖ Answer: D. Excretion

The hormone responsible for the regulation of metabolism in the body is:

A. Thyroxine

B. Insulin

C. Adrenaline

D. Growth hormone

❖ Answer: A. Thyroxine

The type of tissue that lines the internal and external surfaces of the body is called:

A. Epithelial tissue

B. Connective tissue

C. Muscle tissue

D. Nervous tissue

❖ Answer: A. Epithelial tissue

The organ responsible for the production of red blood cells is the:

A. Spleen

B. Liver

C. Bone marrow

D. Pancreas

❖ Answer: C. Bone marrow

The process of breaking down food into simpler substances that can be absorbed by the body is called:

A. Digestion

B. Absorption

C. Secretion

D. Excretion

❖ Answer: A. Digestion

The hormone responsible for the fight-or-flight response in the body is:

A. Adrenaline

B. Insulin

C. Thyroxine

D. Growth hormone

❖ Answer: A. Adrenaline

The type of joint that allows for rotation of a bone around its axis is called:

A. Ball-and-socket joint

B. Hinge joint

C. Pivot joint

D. Fixed joint

❖ Answer: C. Pivot joint

The type of muscle that makes up the heart is called:

A. Skeletal muscle

- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: C. Cardiac muscle

The hormone responsible for the regulation of blood pressure in the body is:

- A. Adrenaline
- B. Aldosterone
- C. Antidiuretic hormone (ADH)
- D. Atrial natriuretic peptide (ANP)

❖ Answer: B. Aldosterone

The organ responsible for the digestion of fats is the:

- A. Liver
- B. Stomach
- C. Pancreas
- D. Small intestine

❖ Answer: D. Small intestine

The process of conversion of glucose into glycogen for storage in the liver and muscles is called:

- A. Glycolysis
- B. Gluconeogenesis
- C. Glycogenesis
- D. Glycogenolysis

❖ Answer: C. Glycogenesis

The hormone responsible for the regulation of calcium levels in the body is:

- A. Calcitonin
- B. Parathyroid hormone (PTH)
- C. Insulin
- D. Glucagon

❖ Answer: B. Parathyroid hormone (PTH)

The type of tissue that provides support and structure to the body is called:

- A. Epithelial tissue
- B. Connective tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: B. Connective tissue

The organ responsible for the production of bile is the:

- A. Liver
- B. Spleen
- C. Pancreas
- D. Stomach

❖ Answer: A. Liver

The process of breaking down stored glycogen into glucose to maintain blood sugar levels is called:

- A. Glycolysis
- B. Gluconeogenesis
- C. Glycogenesis
- D. Glycogenolysis

❖ Answer: D. Glycogenolysis

The hormone responsible for the regulation of water balance in the body is:

- A. Antidiuretic hormone (ADH)
- B. Aldosterone
- C. Insulin
- D. Glucagon

❖ Answer: A. Antidiuretic hormone (ADH)

The type of joint that allows for free movement in all directions is called:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Fixed joint

❖ Answer: A. Ball-and-socket joint

The type of muscle that is under voluntary control is called:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: A. Skeletal muscle

The hormone responsible for the regulation of sodium levels in the body is:

- A. Aldosterone
- B. Adrenaline
- C. Parathyroid hormone (PTH)
- D. Atrial natriuretic peptide (ANP)

❖ Answer: A. Aldosterone

The organ responsible for the storage and release of urine from the body is the:

- A. Kidney
- B. Liver
- C. Bladder
- D. Spleen

❖ Answer: C. Bladder

The process of absorption of nutrients from the small intestine into the bloodstream is called:

- A. Digestion
- B. Absorption
- C. Secretion

D. Excretion

❖ Answer: B. Absorption

The hormone responsible for the regulation of blood glucose levels in the body is:

A. Insulin

B. Glucagon

C. Cortisol

D. Thyroxine

❖ Answer: A. Insulin

The type of tissue that is specialized for contraction and movement is called:

A. Epithelial tissue

B. Connective tissue

C. Muscle tissue

D. Nervous tissue

❖ Answer: C. Muscle tissue

The organ responsible for the production of sperm in males is the:

A. Testes

B. Epididymis

C. Vas deferens

D. Prostate gland

❖ Answer: A. Testes

The process of elimination of undigested waste material from the body is called:

A. Digestion

B. Absorption

C. Secretion

D. Excretion

❖ Answer: D. Excretion

The hormone responsible for the growth and development of bones and muscles is:

A. Adrenaline

B. Insulin

C. Thyroxine

D. Growth hormone

❖ Answer: D. Growth hormone

The type of joint that allows for bending and straightening of a bone is called:

A. Ball-and-socket joint

B. Hinge joint

C. Pivot joint

D. Fixed joint

❖ Answer: B. Hinge joint

The type of muscle that is found in the walls of internal organs and blood vessels is called:

A. Skeletal muscle

B. Smooth muscle

C. Cardiac muscle

D. Striated muscle

❖ Answer: B. Smooth muscle

The hormone responsible for the regulation of the body's circadian rhythms is:

A. Melatonin

B. Adrenaline

C. Insulin

D. Thyroxine

❖ Answer: A. Melatonin

The organ responsible for the filtration of blood and the removal of waste products in the body is the:

A. Kidney

B. Liver

C. Pancreas

D. Spleen

❖ Answer: A. Kidney

The process of conversion of amino acids into glucose in the liver is called:

A. Glycolysis

B. Gluconeogenesis

C. Glycogenesis

D. Glycogenolysis

❖ Answer: B. Gluconeogenesis

The hormone responsible for the regulation of metabolism in the body is:

A. Insulin

B. Glucagon

C. Cortisol

D. Thyroxine

❖ Answer: D. Thyroxine

The type of tissue that lines the internal and external surfaces of the body is called:

A. Epithelial tissue

B. Connective tissue

C. Muscle tissue

D. Nervous tissue

❖ Answer: A. Epithelial tissue

The organ responsible for the digestion and absorption of nutrients from food is the:

A. Stomach

B. Small intestine

C. Large intestine

D. Pancreas

❖ Answer: B. Small intestine

The process of conversion of glucose into glycogen for storage in the liver and muscles is called:

- A. Glycolysis
- B. Gluconeogenesis
- C. Glycogenesis
- D. Glycogenolysis

❖ Answer: C. Glycogenesis

The hormone responsible for the fight-or-flight response in the body is:

- A. Adrenaline
- B. Aldosterone
- C. Cortisol
- D. Thyroxine

❖ Answer: A. Adrenaline

The type of joint that allows for rotational movement is called:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Fixed joint

❖ Answer: C. Pivot joint

The type of muscle that makes up the walls of the heart is called:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: C. Cardiac muscle

The hormone responsible for the regulation of blood pressure in the body is:

- A. Adrenaline
- B. Aldosterone
- C. Atrial natriuretic peptide (ANP)
- D. Thyroxine

❖ Answer: B. Aldosterone

The organ responsible for the production of insulin and glucagon in the body is the:

- A. Liver
- B. Pancreas
- C. Spleen
- D. Kidney

❖ Answer: B. Pancreas

The process of breakdown of glucose into pyruvate to produce energy is called:

- A. Glycolysis
- B. Gluconeogenesis
- C. Glycogenesis
- D. Glycogenolysis

❖ Answer: A. Glycolysis

The hormone responsible for the regulation of calcium levels in the body is:

- A. Insulin
- B. Glucagon
- C. Calcitonin
- D. Parathyroid hormone

❖ Answer: D. Parathyroid hormone

The type of tissue that provides support and protection to the body is called:

- A. Epithelial tissue
- B. Connective tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: B. Connective tissue

The organ responsible for the production of bile and detoxification of the blood is the:

- A. Liver
- B. Pancreas
- C. Gallbladder
- D. Small intestine

❖ Answer: A. Liver

The process of breakdown of glycogen into glucose for use as energy in the body is called:

- A. Glycolysis
- B. Gluconeogenesis
- C. Glycogenesis
- D. Glycogenolysis

❖ Answer: D. Glycogenolysis

The hormone responsible for the regulation of water balance in the body is:

- A. Adrenaline
- B. Aldosterone
- C. Antidiuretic hormone (ADH)
- D. Thyroxine

❖ Answer: C. Antidiuretic hormone (ADH)

The type of joint that allows for free movement in all directions is called:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Fixed joint

❖ Answer: A. Ball-and-socket joint

The type of muscle that is under voluntary control and is responsible for movement and posture is called:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle

D. Striated muscle

❖ Answer: A. Skeletal muscle

The hormone responsible for the regulation of the body's response to stress is:

A. Adrenaline

B. Cortisol

C. Thyroxine

D. Growth hormone

❖ Answer: B. Cortisol

The organ responsible for the storage and release of urine in the body is the:

A. Kidney

B. Liver

C. Pancreas

D. Bladder

❖ Answer: D. Bladder

The process of conversion of glycogen into glucose for use as energy in the body is called:

A. Glycolysis

B. Gluconeogenesis

C. Glycogenesis

D. Glycogenolysis

❖ Answer: D. Glycogenolysis

The hormone responsible for the regulation of blood sugar levels in the body is:

A. Insulin

B. Glucagon

C. Cortisol

D. Thyroxine

❖ Answer: A. Insulin

The type of tissue that is specialized for communication and control in the body is called:

A. Epithelial tissue

B. Connective tissue

C. Muscle tissue

D. Nervous tissue

❖ Answer: D. Nervous tissue

The organ responsible for the production of red blood cells in the body is the:

A. Liver

B. Spleen

C. Bone marrow

D. Lungs

❖ Answer: C. Bone marrow

The process of conversion of non-carbohydrate sources into glucose for use as energy in the body is called:

- A. Glycolysis
- B. Gluconeogenesis
- C. Glycogenesis
- D. Glycogenolysis

❖ Answer: B. Gluconeogenesis

The hormone responsible for the regulation of water and electrolyte balance in the body is:

- A. Adrenaline
- B. Aldosterone
- C. Cortisol
- D. Thyroxine

❖ Answer: B. Aldosterone

The type of joint that allows for movement in only one plane is called:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Fixed joint

❖ Answer: B. Hinge joint

The type of muscle that is found in the walls of internal organs and is responsible for involuntary movement is called:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: B. Smooth muscle

The hormone responsible for the regulation of growth and development in the body is:

- A. Adrenaline
- B. Cortisol
- C. Thyroxine
- D. Growth hormone

❖ Answer: D. Growth hormone

The organ responsible for the filtration of blood and production of urine in the body is the:

- A. Liver
- B. Kidney
- C. Pancreas
- D. Bladder

❖ Answer: B. Kidney

The process of conversion of pyruvate into energy in the presence of oxygen is called:

- A. Glycolysis

- B. Gluconeogenesis
- C. Aerobic respiration
- D. Anaerobic respiration

❖ Answer: C. Aerobic respiration

The part of the brain responsible for regulating basic bodily functions such as breathing and heart rate is called:

- A. Cerebellum
- B. Cerebrum
- C. Medulla oblongata
- D. Thalamus

❖ Answer: C. Medulla oblongata

The hormone responsible for the regulation of water balance in the body is:

- A. Oxytocin
- B. Vasopressin
- C. Thyroxine
- D. Parathyroid hormone

❖ Answer: B. Vasopressin

The type of muscle that is responsible for pumping blood through the body is:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: C. Cardiac muscle

The organ responsible for filtering waste products from the blood and producing urine is the:

- A. Liver
- B. Spleen
- C. Kidney
- D. Urinary bladder

❖ Answer: C. Kidney

The process of breaking down complex molecules into simpler ones is called:

- A. Metabolism
- B. Anabolism
- C. Catabolism
- D. Respiration

❖ Answer: C. Catabolism

The hormone responsible for the regulation of calcium levels in the body is:

- A. Insulin
- B. Glucagon
- C. Calcitonin
- D. Parathyroid hormone

❖ Answer: D. Parathyroid hormone

The type of joint that allows for rotational movement is called:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Gliding joint

❖ Answer: C. Pivot joint

The type of tissue that lines the internal and external surfaces of the body is called:

- A. Epithelial tissue
- B. Connective tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: A. Epithelial tissue

The hormone responsible for the regulation of stress responses in the body is:

- A. Cortisol
- B. Adrenaline
- C. Thyroxine
- D. Insulin

❖ Answer: A. Cortisol

The process of conversion of food into usable energy in the absence of oxygen is called:

- A. Glycolysis
- B. Gluconeogenesis
- C. Aerobic respiration
- D. Anaerobic respiration

❖ Answer: D. Anaerobic respiration

The process of ovulation occurs in which female reproductive organ?

- A. Uterus
- B. Ovary
- C. Fallopian tube
- D. Vagina

❖ Answer: B. Ovary

The type of white blood cell responsible for the immune response is:

- A. Neutrophil
- B. Eosinophil
- C. Basophil
- D. Lymphocyte

❖ Answer: D. Lymphocyte

The hormone responsible for the regulation of blood sugar levels in the body is:

- A. Insulin
- B. Glucagon
- C. Adrenaline
- D. Cortisol

❖ Answer: A. Insulin

The process by which plants convert light energy into chemical energy is called:

- A. Respiration
- B. Photosynthesis
- C. Fermentation
- D. Digestion

❖ Answer: B. Photosynthesis

The gland responsible for the regulation of metabolism in the body is:

- A. Pituitary gland
- B. Adrenal gland
- C. Thyroid gland
- D. Pancreas

❖ Answer: C. Thyroid gland

The type of cell responsible for carrying oxygen in the blood is:

- A. Red blood cell
- B. White blood cell
- C. Platelet
- D. Neuron

❖ Answer: A. Red blood cell

The type of tissue that connects muscle to bone is called:

- A. Tendon
- B. Ligament
- C. Cartilage
- D. Adipose tissue

❖ Answer: A. Tendon

The hormone responsible for the development of male sexual characteristics is:

- A. Testosterone
- B. Estrogen
- C. Progesterone
- D. Oxytocin

❖ Answer: A. Testosterone

The organ responsible for the digestion and absorption of nutrients is the:

- A. Stomach
- B. Small intestine
- C. Large intestine
- D. Pancreas

❖ Answer: B. Small intestine

The part of the nervous system that controls involuntary functions such as digestion and heart rate is called the:

- A. Autonomic nervous system
- B. Somatic nervous system
- C. Sympathetic nervous system

D. Parasympathetic nervous system

❖ Answer: A. Autonomic nervous system

The part of the brain responsible for coordination and balance is called the:

A. Cerebrum

B. Cerebellum

C. Brainstem

D. Hypothalamus

❖ Answer: B. Cerebellum

The type of muscle that is responsible for involuntary movements such as breathing is:

A. Smooth muscle

B. Skeletal muscle

C. Cardiac muscle

D. None of the above

❖ Answer: A. Smooth muscle

The process by which blood cells are formed is called:

A. Hematopoiesis

B. Coagulation

C. Lymphopoiesis

D. Hemolysis

❖ Answer: A. Hematopoiesis

The hormone responsible for milk production in the mammary glands is:

A. Prolactin

B. Oxytocin

C. Luteinizing hormone

D. Follicle-stimulating hormone

❖ Answer: A. Prolactin

The type of tissue that covers and protects the body's surface is called:

A. Epithelial tissue

B. Connective tissue

C. Muscle tissue

D. Nervous tissue

❖ Answer: A. Epithelial tissue

The hormone responsible for the regulation of the sleep-wake cycle is:

A. Melatonin

B. Serotonin

C. Dopamine

D. Norepinephrine

❖ Answer: A. Melatonin

The structure that connects the kidneys to the bladder is called the:

A. Urethra

B. Ureter

C. Renal pelvis

D. Nephron

❖ Answer: B. Ureter

The process by which a single cell divides into two identical daughter cells is called:

A. Mitosis

B. Meiosis

C. Replication

D. Transcription

❖ Answer: A. Mitosis

The hormone responsible for the fight or flight response is:

A. Adrenaline

B. Noradrenaline

C. Dopamine

D. Serotonin

❖ Answer: A. Adrenaline

The process by which a nerve impulse jumps from one node of Ranvier to the next is called:

A. Conduction

B. Saltatory conduction

C. Depolarization

D. Repolarization

❖ Answer: B. Saltatory conduction

The smallest unit of the nervous system is the:

A. Neuron

B. Synapse

C. Axon

D. Dendrite

❖ Answer: A. Neuron

The type of joint that allows for the most movement is the:

A. Hinge joint

B. Ball-and-socket joint

C. Pivot joint

D. Gliding joint

❖ Answer: B. Ball-and-socket joint

The hormone responsible for the regulation of blood sugar levels is:

A. Insulin

B. Glucagon

C. Thyroxine

D. Cortisol

❖ Answer: A. Insulin

The process by which plants use sunlight to convert carbon dioxide and water into glucose and oxygen is called:

- A. Respiration
- B. Photosynthesis
- C. Fermentation
- D. Digestion

❖ Answer: B. Photosynthesis

The type of tissue that provides support and protection for the body's organs is called:

- A. Connective tissue
- B. Epithelial tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: A. Connective tissue

The hormone responsible for the development of female sex characteristics is:

- A. Estrogen
- B. Progesterone
- C. Testosterone
- D. Follicle-stimulating hormone

❖ Answer: A. Estrogen

The structure that carries urine from the bladder to the outside of the body is called the:

- A. Urethra
- B. Ureter
- C. Renal pelvis
- D. Nephron

❖ Answer: A. Urethra

The process by which food is broken down and nutrients are absorbed by the body is called:

- A. Digestion
- B. Absorption
- C. Assimilation
- D. Elimination

❖ Answer: A. Digestion

The hormone responsible for the regulation of the body's metabolism is:

- A. Thyroxine
- B. Prolactin
- C. Oxytocin
- D. Growth hormone

❖ Answer: A. Thyroxine

The type of muscle that is responsible for the beating of the heart is:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle

D. None of the above

❖ Answer: C. Cardiac muscle

The process by which oxygen is transported from the lungs to the body's tissues is called:

A. Respiration

B. Circulation

C. Ventilation

D. Diffusion

❖ Answer: B. Circulation

The type of blood vessel that carries blood away from the heart is the:

A. Artery

B. Vein

C. Capillary

D. Lymph vessel

❖ Answer: A. Artery

The hormone responsible for the development of male sex characteristics is:

A. Estrogen

B. Progesterone

C. Testosterone

D. Follicle-stimulating hormone

❖ Answer: C. Testosterone

The structure that produces sperm in the male reproductive system is called the:

A. Testis

B. Epididymis

C. Vas deferens

D. Prostate gland

❖ Answer: A. Testis

The type of cell division that results in the production of sex cells is called:

A. Mitosis

B. Meiosis

C. Cytokinesis

D. Differentiation

❖ Answer: B. Meiosis

The type of muscle that is responsible for involuntary actions, such as the beating of the heart, is called:

A. Skeletal muscle

B. Smooth muscle

C. Cardiac muscle

D. None of the above

❖ Answer: B. Smooth muscle

The process by which nerve impulses are transmitted between neurons is called:

A. Respiration

- B. Circulation
- C. Synaptic transmission
- D. Diffusion

❖ Answer: C. Synaptic transmission

The hormone responsible for the "fight or flight" response in the body is:

- A. Adrenaline
- B. Cortisol
- C. Insulin
- D. Thyroxine

❖ Answer: A. Adrenaline

The type of tissue that lines the inner surface of organs and body cavities is called:

- A. Connective tissue
- B. Epithelial tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: B. Epithelial tissue

The type of joint found in the neck that allows for a wide range of motion is the:

- A. Hinge joint
- B. Ball-and-socket joint
- C. Pivot joint
- D. Gliding joint

❖ Answer: C. Pivot joint

The process by which food is broken down into smaller molecules that can be absorbed by the body is called:

- A. Digestion
- B. Absorption
- C. Assimilation
- D. Excretion

❖ Answer: A. Digestion

The organ that produces insulin and helps regulate blood sugar levels in the body is the:

- A. Pancreas
- B. Liver
- C. Stomach
- D. Small intestine

❖ Answer: A. Pancreas

The part of the brain that controls balance and coordination is called the:

- A. Cerebrum
- B. Cerebellum
- C. Medulla oblongata
- D. Hypothalamus

❖ Answer: B. Cerebellum

The type of connective tissue that stores fat and insulates the body is called:

- A. Adipose tissue
- B. Cartilage
- C. Bone tissue
- D. Blood tissue

❖ Answer: A. Adipose tissue

The organ that filters blood and removes waste products from the body is the:

- A. Liver
- B. Kidney
- C. Pancreas
- D. Spleen

❖ Answer: B. Kidney

The type of blood vessel that carries blood back to the heart is the:

- A. Artery
- B. Vein
- C. Capillary
- D. Lymph vessel

❖ Answer: B. Vein

The hormone responsible for regulating the sleep-wake cycle in the body is:

- A. Melatonin
- B. Serotonin
- C. Dopamine
- D. Adrenaline

❖ Answer: A. Melatonin

The part of the respiratory system where gas exchange occurs is the:

- A. Trachea
- B. Bronchi
- C. Alveoli
- D. Diaphragm

❖ Answer: C. Alveoli

The process by which the body maintains a stable internal environment despite external changes is called:

- A. Homeostasis
- B. Adaptation
- C. Evolution
- D. Mutation

❖ Answer: A. Homeostasis

The type of tissue that is responsible for carrying electrical signals throughout the body is called:

- A. Connective tissue
- B. Epithelial tissue
- C. Muscle tissue

D. Nervous tissue

❖ Answer: D. Nervous tissue

The process by which oxygen is transported from the lungs to the body's tissues is called:

- A. Respiration
- B. Oxygenation
- C. Ventilation
- D. Diffusion

❖ Answer: D. Diffusion

The process by which genetic information is transferred from DNA to RNA is called:

- A. Replication
- B. Transcription
- C. Translation
- D. Mutation

❖ Answer: B. Transcription

The type of joint that allows for the widest range of motion is the:

- A. Hinge joint
- B. Ball-and-socket joint
- C. Pivot joint
- D. Gliding joint

❖ Answer: B. Ball-and-socket joint

The type of muscle that is responsible for involuntary movements, such as those of the digestive system, is called:

- A. Skeletal muscle
- B. Cardiac muscle
- C. Smooth muscle
- D. Striated muscle

❖ Answer: C. Smooth muscle

The type of white blood cell that is responsible for attacking and destroying foreign invaders, such as bacteria and viruses, is called:

- A. T cell
- B. B cell
- C. Neutrophil
- D. Macrophage

❖ Answer: C. Neutrophil

The part of the nervous system that controls involuntary actions, such as heart rate and digestion, is called the:

- A. Central nervous system
- B. Peripheral nervous system
- C. Autonomic nervous system
- D. Somatic nervous system

❖ Answer: C. Autonomic nervous system

The type of feedback mechanism in which the response to a stimulus reinforces or amplifies the original stimulus is called:

- A. Negative feedback
- B. Positive feedback
- C. Neutral feedback
- D. Inhibitory feedback

❖ Answer: B. Positive feedback

The type of cell division that results in the formation of two identical daughter cells is called:

- A. Mitosis
- B. Meiosis
- C. Fertilization
- D. Differentiation

❖ Answer: A. Mitosis

The type of tissue that lines the surfaces of organs and body cavities is called:

- A. Connective tissue
- B. Epithelial tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: B. Epithelial tissue

The process by which an organism produces offspring that are genetically identical to itself is called:

- A. Sexual reproduction
- B. Asexual reproduction
- C. Fertilization
- D. Meiosis

❖ Answer: B. Asexual reproduction

The fluid-filled sac that surrounds and cushions a developing embryo is called the:

- A. Placenta
- B. Amniotic sac
- C. Chorion
- D. Umbilical cord

❖ Answer: B. Amniotic sac

The hormone responsible for triggering the "fight or flight" response in the body is:

- A. Cortisol
- B. Insulin
- C. Adrenaline
- D. Estrogen

❖ Answer: C. Adrenaline

The part of the brain responsible for regulating basic survival functions, such as breathing and heart rate, is called the:

- A. Cerebellum

- B. Cerebrum
- C. Brainstem
- D. Thalamus

❖ Answer: C. Brainstem

The process by which energy is produced in the mitochondria of cells is called:

- A. Glycolysis
- B. Oxidative phosphorylation
- C. Fermentation
- D. Krebs cycle

❖ Answer: B. Oxidative phosphorylation

The pigment responsible for the absorption of light in the retina of the eye is called:

- A. Melatonin
- B. Rhodopsin
- C. Hemoglobin
- D. Chlorophyll

❖ Answer: B. Rhodopsin

The process by which an organism's body temperature is regulated is called:

- A. Thermoregulation
- B. Homeostasis
- C. Osmoregulation
- D. Feedback regulation

❖ Answer: A. Thermoregulation

The type of hormone that is lipids soluble and can diffuse through cell membranes to reach target cells is called:

- A. Steroid hormone
- B. Peptide hormone
- C. Growth hormone
- D. Insulin hormone

❖ Answer: A. Steroid hormone

The type of bone that is long, cylindrical, and has a shaft with rounded ends is called a:

- A. Flat bone
- B. Irregular bone
- C. Short bone
- D. Long bone

❖ Answer: D. Long bone

The process by which oxygen and carbon dioxide are exchanged between the atmosphere and the body's cells is called:

- A. Respiration
- B. Ventilation
- C. Diffusion
- D. Circulation

❖ Answer: A. Respiration

The protein that makes up the majority of the fibers in connective tissue, such as tendons and ligaments, is called:

- A. Myosin
- B. Actin
- C. Collagen
- D. Elastin

❖ Answer: C. Collagen

The type of muscle tissue that is found in the walls of hollow organs, such as the stomach and intestines, is called:

- A. Skeletal muscle
- B. Smooth muscle
- C. Cardiac muscle
- D. Striated muscle

❖ Answer: B. Smooth muscle

The structure that connects bones to other bones is called a:

- A. Ligament
- B. Tendon
- C. Cartilage
- D. Muscle

❖ Answer: A. Ligament

The process by which nerve impulses are transmitted between neurons is called:

- A. Synaptic transmission
- B. Action potential
- C. Neurotransmission
- D. Neuronal activation

❖ Answer: A. Synaptic transmission

The hormone responsible for regulating blood glucose levels is called:

- A. Insulin
- B. Glucagon
- C. Adrenaline
- D. Thyroxine

❖ Answer: A. Insulin

The type of joint found in the skull that allows for very little movement is called a:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Suture joint

❖ Answer: D. Suture joint

The type of white blood cell that is responsible for the body's immune response is called a:

- A. Neutrophil

- B. Eosinophil
- C. Basophil
- D. Lymphocyte

❖ Answer: D. Lymphocyte

The hormone responsible for stimulating milk production in the mammary glands is called:

- A. Estrogen
- B. Progesterone
- C. Prolactin
- D. Oxytocin

❖ Answer: C. Prolactin

The process by which the kidneys remove waste products from the blood is called:

- A. Filtration
- B. Reabsorption
- C. Secretion
- D. Excretion

❖ Answer: A. Filtration

The structure that separates the thoracic cavity from the abdominal cavity is called the:

- A. Diaphragm
- B. Pleura
- C. Peritoneum
- D. Mesentery

❖ Answer: A. Diaphragm

The type of gland that secretes its products directly into the bloodstream is called an:

- A. Endocrine gland
- B. Exocrine gland
- C. Salivary gland
- D. Sweat gland

❖ Answer: A. Endocrine gland

The process of breaking down food into smaller molecules that can be absorbed by the body is called:

- A. Digestion
- B. Absorption
- C. Elimination
- D. Metabolism

❖ Answer: A. Digestion

The organ responsible for producing bile, which helps digest fats, is called the:

- A. Stomach
- B. Liver
- C. Pancreas

D. Gallbladder

❖ Answer: B. Liver

The process by which oxygen is transported from the lungs to the body's tissues is called:

- A. Respiration
- B. Circulation
- C. Oxygenation
- D. Ventilation

❖ Answer: B. Circulation

The type of muscle tissue that is voluntary and attached to bones is called:

- A. Smooth muscle
- B. Cardiac muscle
- C. Striated muscle
- D. Skeletal muscle

❖ Answer: D. Skeletal muscle

The hormone responsible for stimulating the body's fight or flight response is called:

- A. Adrenaline
- B. Insulin
- C. Thyroxine
- D. Glucagon

❖ Answer: A. Adrenaline

The part of the brain responsible for coordinating muscle movements and maintaining balance is called the:

- A. Cerebellum
- B. Medulla oblongata
- C. Hypothalamus
- D. Hippocampus

❖ Answer: A. Cerebellum

The organ responsible for filtering the blood and removing waste products is called the:

- A. Liver
- B. Kidney
- C. Pancreas
- D. Gallbladder

❖ Answer: B. Kidney

The type of joint found in the shoulder that allows for a wide range of motion is called a:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Saddle joint

❖ Answer: A. Ball-and-socket joint

The process by which plants convert sunlight into chemical energy in the form of glucose is called:

- A. Photosynthesis
- B. Cellular respiration
- C. Fermentation
- D. Oxidative phosphorylation

❖ Answer: A. Photosynthesis

The type of muscle tissue that is found in the walls of the heart is called:

- A. Smooth muscle
- B. Cardiac muscle
- C. Striated muscle
- D. Skeletal muscle

❖ Answer: B. Cardiac muscle

The hormone responsible for regulating blood glucose levels is called:

- A. Insulin
- B. Glucagon
- C. Cortisol
- D. Adrenaline

❖ Answer: A. Insulin

The part of the nervous system responsible for the body's involuntary functions, such as digestion and heartbeat, is called the:

- A. Central nervous system
- B. Peripheral nervous system
- C. Autonomic nervous system
- D. Somatic nervous system

❖ Answer: C. Autonomic nervous system

The process by which nutrients are exchanged between the bloodstream and the body's cells is called:

- A. Digestion
- B. Absorption
- C. Respiration
- D. Circulation

❖ Answer: B. Absorption

The hormone responsible for regulating the body's sleep-wake cycle is called:

- A. Melatonin
- B. Serotonin
- C. Dopamine
- D. Norepinephrine

❖ Answer: A. Melatonin

The process by which the body eliminates waste products through the rectum and anus is called:

- A. Digestion

- B. Absorption
- C. Elimination
- D. Metabolism

❖ Answer: C. Elimination

The type of joint found in the elbow that allows for bending and straightening is called a:

- A. Ball-and-socket joint
- B. Hinge joint
- C. Pivot joint
- D. Saddle joint

❖ Answer: B. Hinge joint

The organ responsible for producing and secreting digestive enzymes into the small intestine is called the:

- A. Stomach
- B. Liver
- C. Pancreas
- D. Gallbladder

❖ Answer: C. Pancreas

The type of muscle tissue found in the walls of internal organs, such as the intestines, is called:

- A. Smooth muscle
- B. Cardiac muscle
- C. Striated muscle
- D. Skeletal muscle

❖ Answer: A. Smooth muscle

The process by which the body converts food into energy in the form of ATP is called:

- A. Photosynthesis
- B. Cellular respiration
- C. Fermentation
- D. Oxidative phosphorylation

❖ Answer: B. Cellular respiration

The part of the brain responsible for processing sensory information, such as touch and temperature, is called the:

- A. Cerebellum
- B. Medulla oblongata
- C. Hypothalamus
- D. Somatosensory cortex

❖ Answer: D. Somatosensory cortex

The part of the eye responsible for focusing light onto the retina is called the:

- A. Cornea
- B. Lens

C. Iris

D. Retina

❖ Answer: B. Lens

The process by which the body maintains a stable internal environment despite external fluctuations is called:

A. Homeostasis

B. Feedback regulation

C. Negative feedback

D. Positive feedback

❖ Answer: A. Homeostasis

The hormone responsible for promoting water reabsorption in the kidneys is called:

A. Antidiuretic hormone (ADH)

B. Aldosterone

C. Cortisol

D. Thyroxine

❖ Answer: A. Antidiuretic hormone (ADH)

The process by which sperm cells and egg cells unite to form a zygote is called:

A. Fertilization

B. Implantation

C. Gestation

D. Labor

❖ Answer: A. Fertilization

The process by which an organism changes and develops over time, leading to the evolution of different species, is called:

A. Natural selection

B. Adaptation

C. Evolution

D. Genetic drift

❖ Answer: C. Evolution

The part of the brain responsible for regulating body temperature and hunger is called the:

A. Cerebellum

B. Medulla oblongata

C. Hypothalamus

D. Limbic system

❖ Answer: C. Hypothalamus

The hormone responsible for stimulating milk production in the mammary glands of the breast is called:

A. Oxytocin

B. Prolactin

C. Estrogen

D. Progesterone

❖ Answer: B. Prolactin

The type of blood vessel that carries oxygenated blood from the heart to the body's tissues is called a:

- A. Vein
- B. Artery
- C. Capillary
- D. Lymph vessel

❖ Answer: B. Artery

The process by which cells divide to form new cells is called:

- A. Mitosis
- B. Meiosis
- C. Fertilization
- D. Cleavage

❖ Answer: A. Mitosis

The type of tissue that lines the internal and external surfaces of the body is called:

- A. Epithelial tissue
- B. Connective tissue
- C. Muscle tissue
- D. Nervous tissue

❖ Answer: A. Epithelial tissue

Biology (Botany question and answer)

Which of the following is not a part of the shoot system in a flowering plant?

- a) Stem
- b) Leaves
- c) Flowers
- d) Roots

Answer: d) Roots

In which part of a flower does fertilization occur?

- a) Sepals
- b) Petals
- c) Stigma
- d) Anther

Answer: c) Stigma

What is the function of stomata in plants?

- a) To absorb water from the soil
- b) To transport nutrients
- c) To regulate gas exchange
- d) To produce flowers

Answer: c) To regulate gas exchange

Which of the following is not a type of asexual reproduction in plants?

- a) Fragmentation
- b) Budding

c) Vegetative propagation

d) Pollination

Answer: d) Pollination

What is the role of auxins in plant growth?

a) Promote cell division and elongation

b) Inhibit cell division and elongation

c) Promote root growth

d) Inhibit root growth

Answer: a) Promote cell division and elongation

Which of the following is not a function of roots in plants?

a) Absorption of water and nutrients from the soil

b) Anchoring the plant to the ground

c) Production of flowers

d) Storage of food

Answer: c) Production of flowers

What is the function of phloem in plants?

a) Transport of water and minerals

b) Transport of food materials

c) Anchoring the plant to the ground

d) Protection against pests and diseases

Answer: b) Transport of food materials

What is the process by which green plants synthesize their own food using sunlight?

a) Respiration

b) Photosynthesis

c) Digestion

d) Fermentation

Answer: b) Photosynthesis

What is the role of gibberellins in plant growth?

a) Promote seed germination and stem elongation

b) Inhibit seed germination and stem elongation

c) Promote root growth

d) Inhibit root growth

Answer: a) Promote seed germination and stem elongation

Which of the following is not a type of tropism in plants?

a) Phototropism

b) Gravitropism

c) Thigmotropism

d) Fertilization

Answer: d) Fertilization

What is the role of the stigma in a flower?

a) Production of pollen grains

b) Protection of the ovary

- c) Reception of pollen grains
- d) Absorption of nutrients

Answer: c) Reception of pollen grains

Which of the following is a type of asexual reproduction in which a part of the plant develops into a new plant?

- a) Vegetative propagation
- b) Fragmentation
- c) Budding
- d) Binary fission

Answer: a) Vegetative propagation

What is the function of the xylem in plants?

- a) Transport of food materials
- b) Transport of water and minerals
- c) Anchoring the plant to the ground
- d) Protection against pests and diseases

Answer: b) Transport of water and minerals

Which of the following is a type of cell division that produces gametes?

- a) Mitosis
- b) Meiosis
- c) Cytokinesis
- d) Interphase

Answer: b) Meiosis

What is the role of cytokinins in plant growth?

- a) Promote cell division and differentiation
- b) Inhibit cell division and differentiation
- c) Promote root growth
- d) Inhibit root growth

Answer: a) Promote cell division and differentiation

Which of the following is not a type of plant tissue?

- a) Epidermal tissue
- b) Ground tissue
- c) Vascular tissue

d) Animal tissue

Answer: d) Animal tissue

What is the role of the anther in a flower?

- a) Reception of pollen grains
- b) Production of pollen grains
- c) Protection of the ovary

d) Absorption of nutrients

Answer: b) Production of pollen grains

Which of the following is a type of symbiotic relationship between a plant and a fungus?

- a) Parasitism
- b) Commensalism
- c) Mutualism

d) Competition

Answer: c) Mutualism

What is the role of the ovary in a flower?

- a) Reception of pollen grains
- b) Production of pollen grains
- c) Protection of the ovules

d) Absorption of nutrients

Answer: c) Protection of the ovules

Which of the following is not a type of seed dispersal mechanism in plants?

- a) Wind
- b) Water
- c) Fire

d) Absorption

Answer: d) Absorption

What is the process by which plants lose water through small openings on their leaves?

- a) Transpiration
- b) Respiration
- c) Photosynthesis
- d) Fermentation

Answer: a) Transpiration

Which of the following is a type of plant hormone that promotes fruit ripening?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Ethylene

Answer: d) Ethylene

What is the function of the guard cells in a plant?

- a) Production of food materials
- b) Transport of water and minerals
- c) Regulation of transpiration
- d) Protection against pests and diseases

Answer: c) Regulation of transpiration

Which of the following is a type of meristem that is responsible for primary growth in plants?

- a) Apical meristem
- b) Lateral meristem
- c) Intercalary meristem

d) Vascular meristem

Answer: a) Apical meristem

What is the function of the ovules in a flower?

a) Reception of pollen grains

b) Production of pollen grains

c) Protection of the ovary

d) Production of seeds

Answer: d) Production of seeds

Which of the following is not a type of plant hormone?

a) Auxin

b) Gibberellin

c) Cytokine

d) Hemoglobin

Answer: d) Hemoglobin

What is the function of the pericycle in a plant root?

a) Transport of water and minerals

b) Protection of the root cap

c) Production of lateral roots

d) Regulation of transpiration

Answer: c) Production of lateral roots

Which of the following is not a type of soil particle?

a) Sand

b) Silt

c) Clay

d) Fossil

Answer: d) Fossil

What is the role of the endosperm in a plant seed?

a) Protection of the embryo

b) Production of food materials

c) Transport of water and minerals

d) Absorption of nutrients

Answer: b) Production of food materials

Which of the following is not a type of plant tissue system?

a) Dermal tissue system

b) Vascular tissue system

c) Ground tissue system

d) Epithelial tissue system

Answer: d) Epithelial tissue system (as this is not a plant tissue system, but a type of tissue system found in animals)

Which of the following is a type of plant tissue that provides mechanical support to the plant?

a) Epidermal tissue

b) Vascular tissue

c) Ground tissue

d) Sclerenchyma tissue

Answer: d) Sclerenchyma tissue

Which of the following is a type of plant hormone that promotes stem elongation?

a) Auxin

b) Gibberellin

c) Cytokinin

d) Absciscic acid

Answer: b) Gibberellin

What is the function of the root hairs in a plant root?

- a) Protection of the root cap
- b) Absorption of water and minerals
- c) Production of lateral roots
- d) Regulation of transpiration

Answer: b) Absorption of water and minerals

Which of the following is a type of plant tissue that is responsible for photosynthesis?

- a) Epidermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Chlorophyll tissue

Answer: c) Ground tissue

What is the function of the stigma in a flower?

- a) Reception of pollen grains
- b) Production of pollen grains
- c) Protection of the ovary
- d) Production of nectar

Answer: a) Reception of pollen grains

Which of the following is a type of seed dispersal mechanism in which seeds are carried by animals?

- a) Wind dispersal
- b) Water dispersal
- c) Self-dispersal
- d) Animal dispersal

Answer: d) Animal dispersal

What is the function of the endodermis in a plant root?

- a) Transport of water and minerals
- b) Protection of the root cap
- c) Production of lateral roots
- d) Regulation of transpiration

Answer: a) Transport of water and minerals

Which of the following is not a type of soil horizon?

- a) O horizon
- b) A horizon
- c) B horizon
- d) C horizon

Answer: d) C horizon (as this is not a soil horizon, but rather the parent material from which the soil forms)

What is the function of the petiole in a leaf?

- a) Protection of the leaf blade
- b) Production of food materials
- c) Anchoring the leaf to the stem
- d) Transport of water and minerals

Answer: c) Anchoring the leaf to the stem

Which of the following is a type of plant tissue that is responsible for transport of water and minerals?

- a) Epidermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Sclerenchyma tissue

Answer: b) Vascular tissue

Which of the following is not a type of plant cell?

- a) Parenchyma cell
- b) Collenchyma cell
- c) Sclerenchyma cell
- d) Erythrocyte cell

Answer: d) Erythrocyte cell (as this is a type of cell found in animals, not plants)

What is the function of the style in a flower?

- a) Reception of pollen grains
- b) Production of pollen grains
- c) Protection of the ovary
- d) Connection between the stigma and the ovary

Answer: d) Connection between the stigma and the ovary

Which of the following is a type of plant hormone that inhibits growth and promotes dormancy?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: d) Absciscic acid

What is the function of the sieve tube elements in the phloem?

- a) Transport of water and minerals
- b) Protection of the stem
- c) Transport of food materials
- d) Production of lateral roots

Answer: c) Transport of food materials

Which of the following is not a type of plant tissue that is responsible for mechanical support?

- a) Epidermal tissue
- b) Vascular tissue
- c) Collenchyma tissue
- d) Sclerenchyma tissue

Answer: a) Epidermal tissue

What is the function of the mesophyll cells in a plant leaf?

- a) Protection of the leaf blade

- b) Production of food materials
- c) Transport of water and minerals
- d) Photosynthesis

Answer: d) Photosynthesis

Which of the following is a type of plant tissue that is responsible for the exchange of gases between the plant and the environment?

- a) Epidermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Stomatal tissue

Answer: d) Stomatal tissue

What is the function of the endoplasmic reticulum in a plant cell?

- a) Production of energy
- b) Transport of materials within the cell
- c) Digestion of cellular waste
- d) Protection against pathogens

Answer: b) Transport of materials within the cell

Which of the following is a type of seed dispersal mechanism in which seeds are carried by wind?

- a) Wind dispersal
- b) Water dispersal
- c) Self-dispersal
- d) Animal dispersal

Answer: a) Wind dispersal

What is the function of the peroxisomes in a plant cell?

- a) Production of energy
- b) Transport of materials within the cell
- c) Digestion of cellular waste
- d) Detoxification of harmful substances

Answer: d) Detoxification of harmful substances

What is the function of the root hairs in a plant root?

- a) Absorption of water and minerals
- b) Protection of the root
- c) Production of hormones
- d) Photosynthesis

Answer: a) Absorption of water and minerals

Which of the following is not a type of tissue system in plants?

- a) Dermal tissue system
- b) Vascular tissue system
- c) Ground tissue system
- d) Gastrointestinal tissue system

Answer: d) Gastrointestinal tissue system (as this is a type of tissue system found in animals, not plants)

What is the function of the stomata in a plant leaf?

- a) Production of food materials
- b) Protection of the leaf
- c) Transport of water and minerals
- d) Exchange of gases between the plant and the environment

Answer: d) Exchange of gases between the plant and the environment

Which of the following is a type of plant hormone that promotes cell elongation and growth?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: b) Gibberellin

What is the function of the meristem tissue in a plant?

- a) Production of food materials
- b) Protection of the plant
- c) Growth and development of the plant
- d) Transport of water and minerals

Answer: c) Growth and development of the plant

Which of the following is a type of seed dispersal mechanism in which seeds are carried by animals?

- a) Wind dispersal
- b) Water dispersal
- c) Self-dispersal
- d) Animal dispersal

Answer: d) Animal dispersal

What is the function of the xylem in a plant?

- a) Transport of food materials
- b) Protection of the stem
- c) Transport of water and minerals
- d) Production of lateral roots

Answer: c) Transport of water and minerals

Which of the following is not a type of plant cell organelle?

- a) Chloroplast
- b) Mitochondria
- c) Endoplasmic reticulum
- d) Erythrocyte

Answer: d) Erythrocyte (as this is a type of cell found in animals, not plants)

What is the function of the phloem in a plant?

- a) Transport of food materials

- b) Protection of the stem
 - c) Transport of water and minerals
 - d) Production of lateral roots
- Answer: a) Transport of food materials

Which of the following is a type of plant tissue that covers the surface of the plant and protects it from external factors?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: a) Dermal tissue

What is the process by which plants convert light energy into chemical energy?

- a) Photosynthesis
- b) Respiration
- c) Digestion
- d) Fermentation

Answer: a) Photosynthesis

What is the function of the seed coat in a plant seed?

- a) Protection of the embryo
- b) Absorption of water
- c) Production of hormones
- d) Photosynthesis

Answer: a) Protection of the embryo

Which of the following is a type of asexual reproduction in plants?

- a) Fertilization
- b) Budding
- c) Meiosis
- d) Pollination

Answer: b) Budding

What is the function of the stamen in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Production of nectar

Answer: a) Production of pollen grains

Which of the following is a type of plant tissue that provides structural support to the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: c) Ground tissue

What is the function of the ovary in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Production of seeds

Answer: d) Production of seeds

Which of the following is a type of plant hormone that regulates the opening and closing of stomata in leaves?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: d) Absciscic acid

What is the function of the style in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Production of nectar

Answer: b) Reception of pollen grains

What is the function of the anther in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Production of nectar

Answer: a) Production of pollen grains

Which of the following is a type of plant tissue that forms the conducting system for water and nutrients?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: b) Vascular tissue

What is the function of the endosperm in a plant seed?

- a) Protection of the embryo
- b) Absorption of water
- c) Production of hormones
- d) Nutrient storage

Answer: d) Nutrient storage

Which of the following is not a type of plant tissue system?

- a) Epidermal tissue system
- b) Ground tissue system
- c) Respiratory tissue system

d) Vascular tissue system

Answer: c) Respiratory tissue system (as respiration is a metabolic process, not a tissue system)

Which of the following is a type of plant hormone that promotes cell division and differentiation?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: c) Cytokinin

What is the function of the petal in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Attraction of pollinators

Answer: d) Attraction of pollinators

Which of the following is a type of plant tissue that forms the outermost layer of the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: a) Dermal tissue

What is the function of the filament in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Attachment of the anther to the flower

Answer: d) Attachment of the anther to the flower

Which of the following is a type of plant hormone that promotes fruit ripening?

- a) Auxin
- b) Gibberellin
- c) Ethylene
- d) Absciscic acid

Answer: c) Ethylene

What is the function of the receptacle in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Attachment of floral parts to the stem

Answer: d) Attachment of floral parts to the stem

Which of the following is a type of plant tissue that produces new cells for growth and repair?

- a) Dermal tissue
 - b) Vascular tissue
 - c) Ground tissue
 - d) Meristematic tissue
- Answer: d) Meristematic tissue

What is the function of the ovule in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Production of seeds

Answer: d) Production of seeds

What is the function of the xylem in a plant?

- a) Transport of water and minerals from roots to other parts of the plant
- b) Transport of sugar from leaves to other parts of the plant
- c) Protection of the plant
- d) Production of hormones

Answer: a) Transport of water and minerals from roots to other parts of the plant

Which of the following is not a type of plant tissue cell?

- a) Parenchyma
- b) Collenchyma
- c) Sclerenchyma
- d) Mycorrhiza

Answer: d) Mycorrhiza (as it is a symbiotic association between plant roots and fungi)

Which of the following is a type of asexual reproduction in which a new plant is formed from a vegetative part of the parent plant?

- a) Fragmentation
- b) Fertilization
- c) Pollination
- d) Budding

Answer: a) Fragmentation

What is the function of the phloem in a plant?

- a) Transport of water and minerals from roots to other parts of the plant
- b) Transport of sugar from leaves to other parts of the plant
- c) Protection of the plant
- d) Production of hormones

Answer: b) Transport of sugar from leaves to other parts of the plant

Which of the following is a type of plant tissue that regulates gas exchange in leaves?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Stomatal tissue

Answer: d) Stomatal tissue

What is the function of the cambium in a plant?

- a) Production of leaves
- b) Production of flowers
- c) Production of roots
- d) Production of secondary growth (thickness)

Answer: d) Production of secondary growth (thickness)

Which of the following is a type of plant hormone that promotes stem elongation and cell division?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: b) Gibberellin

What is the function of the calyx in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Attraction of pollinators

Answer: c) Protection of the flower

Which of the following is a type of plant tissue that forms the bulk of the plant body and performs various functions?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: c) Ground tissue

What is the function of the stigma in a flower?

- a) Production of pollen grains
- b) Reception of pollen grains
- c) Protection of the flower
- d) Production of nectar

Answer: b) Reception of pollen grains

Which of the following is the process of conversion of glucose into energy in plants?

- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Reproduction

Answer: b) Respiration

Which of the following is not a part of the female reproductive system in a flower?

- a) Ovary
- b) Stigma
- c) Style

d) Anther

Answer: d) Anther (as it is a part of the male reproductive system)

Which of the following is a type of plant tissue that covers the outer surface of the plant and protects it from environmental stresses?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: a) Dermal tissue

Which of the following is a type of plant tissue that provides mechanical support to the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: b) Vascular tissue

Which of the following is a type of plant hormone that promotes cell division and differentiation in the roots?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: c) Cytokinin

Which of the following is a type of plant tissue that stores food and water?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: c) Ground tissue

Which of the following is a type of asexual reproduction in which a new plant is formed from a part of the parent plant that falls on the ground and grows into a new individual?

- a) Fragmentation
- b) Fertilization
- c) Pollination
- d) Vegetative propagation

Answer: d) Vegetative propagation

Which of the following is a type of plant hormone that promotes seed germination, stem elongation, and flowering?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: b) Gibberellin

Which of the following is not a part of the male reproductive system in a flower?

- a) Ovary
- b) Anther
- c) Filament
- d) Pollen grains

Answer: a) Ovary (as it is a part of the female reproductive system)

Which of the following is a type of plant tissue that connects the roots and leaves and transports water and minerals throughout the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Stomatal tissue

Answer: b) Vascular tissue

Which of the following is the process of producing haploid cells from diploid cells in plants?

- a) Fertilization
- b) Mitosis
- c) Meiosis
- d) Replication

Answer: c) Meiosis

Which of the following is a type of plant tissue that controls the opening and closing of stomata for gas exchange and transpiration?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Stomatal tissue

Answer: d) Stomatal tissue

Which of the following is a type of plant hormone that inhibits plant growth, promotes dormancy, and helps plants tolerate environmental stresses?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: d) Absciscic acid

Which of the following is a type of plant tissue that makes up the bulk of the plant and carries out photosynthesis, storage, and support functions?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epithelial tissue

Answer: c) Ground tissue

Which of the following is a type of asexual reproduction in which a new plant is formed from a part of the parent plant that is cut and rooted in soil or water?

- a) Fragmentation
- b) Fertilization
- c) Pollination
- d) Cutting

Answer: d) Cutting

Which of the following is a type of plant hormone that promotes cell elongation and tropisms (directional growth responses)?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: a) Auxin

Which of the following is a type of cell division that produces two identical daughter cells from a single parent cell in plants?

- a) Fertilization
- b) Mitosis
- c) Meiosis
- d) Replication

Answer: b) Mitosis

Which of the following is a type of plant tissue that forms the conducting system of the plant and transports water, minerals, and sugars between the roots and shoots?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Stomatal tissue

Answer: b) Vascular tissue

Which of the following is a type of sexual reproduction in plants in which the pollen from one flower fertilizes the ovary of another flower on the same plant?

- a) Self-fertilization
- b) Cross-fertilization
- c) Apomixis
- d) Parthenocarpy

Answer: a) Self-fertilization

Which of the following is a type of plant hormone that promotes cell division in the shoot apical meristem and delays senescence (aging) in leaves?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: c) Cytokinin

Which of the following is the process of converting light energy into chemical energy in plants?

- a) Respiration
- b) Photosynthesis
- c) Fermentation
- d) Transpiration

Answer: b) Photosynthesis

Which of the following is a type of plant tissue that provides protection against physical damage, water loss, and pathogens?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Epidermal tissue

Answer: a) Dermal tissue

Which of the following is a type of plant hormone that promotes stem elongation, seed germination, and fruit growth?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Abscissic acid

Answer: b) Gibberellin

Which of the following is a type of plant response to touch or mechanical stimulation?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Hydrotropism

Answer: c) Thigmotropism

Which of the following is a type of plant tissue that produces new cells for growth and repair?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Meristematic tissue

Answer: d) Meristematic tissue

Which of the following is a type of plant hormone that regulates the opening and closing of stomata for gas exchange and transpiration?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Abscissic acid

Answer: d) Abscissic acid

Which of the following is a type of seed dormancy in which the embryo remains undeveloped until it receives a specific environmental cue?

- a) Physiological dormancy
- b) Morphological dormancy
- c) Physical dormancy
- d) Combination dormancy

Answer: a) Physiological dormancy

Which of the following is a type of plant response to light direction?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Hydrotropism

Answer: b) Phototropism

Which of the following is a type of plant hormone that promotes the formation of lateral roots and delays senescence (aging) in leaves?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Abscissic acid

Answer: a) Auxin

Which of the following is a type of plant tissue that stores food, water, and minerals?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Parenchyma tissue

Answer: d) Parenchyma tissue

Which of the following is a type of plant hormone that regulates cell division and differentiation?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Ethylene

Answer: c) Cytokinin

Which of the following is a type of plant response to gravity?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Gravitropism

Answer: d) Gravitropism

Which of the following is a type of plant tissue that transports water, minerals, and organic compounds throughout the plant?

- a) Dermal tissue

- b) Vascular tissue
 - c) Ground tissue
 - d) Epidermal tissue
- Answer: b) Vascular tissue

Which of the following is a type of seed dormancy in which the embryo is physically prevented from germinating by a hard seed coat?

- a) Physiological dormancy
 - b) Morphological dormancy
 - c) Physical dormancy
 - d) Combination dormancy
- Answer: c) Physical dormancy

Which of the following is a type of plant response to changes in day length?

- a) Tropism
 - b) Phototropism
 - c) Thigmotropism
 - d) Photoperiodism
- Answer: d) Photoperiodism

Which of the following is a type of plant hormone that promotes fruit ripening and leaf senescence?

- a) Auxin
 - b) Gibberellin
 - c) Cytokinin
 - d) Ethylene
- Answer: d) Ethylene

Which of the following is a type of plant response to water availability?

- a) Tropism
 - b) Phototropism
 - c) Thigmotropism
 - d) Hydrotropism
- Answer: d) Hydrotropism

Which of the following is a type of plant tissue that provides support for the plant and stores carbohydrates?

- a) Dermal tissue
 - b) Vascular tissue
 - c) Ground tissue
 - d) Sclerenchyma tissue
- Answer: d) Sclerenchyma tissue

Which of the following is a type of plant hormone that promotes seed dormancy and inhibits seed germination?

- a) Auxin
- b) Gibberellin
- c) Cytokinin

d) Absciscic acid

Answer: d) Absciscic acid

Which of the following is a type of plant response to touch or mechanical stimulation?

a) Tropism

b) Phototropism

c) Thigmotropism

d) Photoperiodism

Answer: c) Thigmotropism

Which of the following is a type of plant tissue that covers the plant's surface and helps to reduce water loss?

a) Dermal tissue

b) Vascular tissue

c) Ground tissue

d) Parenchyma tissue

Answer: a) Dermal tissue

Which of the following is a type of plant hormone that promotes stem elongation and cell division?

a) Auxin

b) Gibberellin

c) Cytokinin

d) Ethylene

Answer: b) Gibberellin

Which of the following is a type of plant response to light?

a) Tropism

b) Phototropism

c) Thigmotropism

d) Gravitropism

Answer: b) Phototropism

Which of the following is a type of plant tissue that is responsible for photosynthesis?

a) Dermal tissue

b) Vascular tissue

c) Ground tissue

d) Parenchyma tissue

Answer: d) Parenchyma tissue

Which of the following is a type of plant response to touch that occurs in response to repeated or prolonged mechanical stimulation?

a) Tropism

b) Phototropism

c) Thigmomorphogenesis

d) Gravitropism

Answer: c) Thigmomorphogenesis

Which of the following is a type of plant hormone that promotes lateral bud growth and inhibits apical bud growth?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: c) Cytokinin

Which of the following is a type of plant response to high temperatures?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Thermotropism

Answer: d) Thermotropism

Which of the following is a type of plant tissue that stores water, nutrients, and waste products?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Collenchyma tissue

Answer: c) Ground tissue

Which of the following is a type of plant hormone that inhibits stem elongation and promotes lateral bud growth?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: a) Auxin

Which of the following is a type of plant response to touch that occurs in response to a single touch or brief mechanical stimulation?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Thigmonasty

Answer: d) Thigmonasty

Which of the following is a type of plant tissue that transports water and nutrients throughout the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Collenchyma tissue

Answer: b) Vascular tissue

Which of the following is a type of plant hormone that is responsible for controlling plant growth and development in response to seasonal changes?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: d) Absciscic acid

Which of the following is a type of plant response to gravity?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Geotropism

Answer: d) Geotropism

Which of the following is a type of plant tissue that provides support and protection for the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Sclerenchyma tissue

Answer: d) Sclerenchyma tissue

Which of the following is a type of plant hormone that promotes root growth and inhibits stem elongation?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Ethylene

Answer: a) Auxin

Which of the following is a type of plant response to low light levels?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Skototropism

Answer: d) Skototropism

Which of the following is a type of plant tissue that provides flexibility and support for the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Collenchyma tissue

Answer: d) Collenchyma tissue

Which of the following is a type of plant hormone that promotes fruit ripening and senescence?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Ethylene

Answer: d) Ethylene

Which of the following is a type of plant response to touch that occurs in response to repeated or prolonged mechanical stimulation?

- a) Tropism
- b) Phototropism
- c) Thigmomorphogenesis
- d) Thigmonasty

Answer: c) Thigmomorphogenesis

Which of the following is a type of plant tissue that is responsible for producing new cells and promoting growth in the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Meristematic tissue

Answer: d) Meristematic tissue

Which of the following is a type of plant hormone that promotes cell division and shoot growth?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Abscissic acid

Answer: c) Cytokinin

Which of the following is a type of plant response to light that involves bending of the plant towards the source of light?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Skototropism

Answer: b) Phototropism

Which of the following is a type of plant tissue that covers the outer surface of the plant and protects it from damage and water loss?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Cork tissue

Answer: a) Dermal tissue

Which of the following is a type of plant hormone that promotes stem elongation and seed germination?

- a) Auxin
 - b) Gibberellin
 - c) Cytokinin
 - d) Ethylene
- Answer: b) Gibberellin

Which of the following is a type of plant response to touch that involves rapid folding or movement of plant parts in response to touch?

- a) Tropism
 - b) Phototropism
 - c) Thigmonasty
 - d) Thigmomorphogenesis
- Answer: c) Thigmonasty

Which of the following is a type of plant tissue that is responsible for photosynthesis?

- a) Dermal tissue
 - b) Vascular tissue
 - c) Ground tissue
 - d) Chlorophyllous tissue
- Answer: d) Chlorophyllous tissue

Which of the following is a type of plant hormone that is responsible for regulating plant response to stress such as drought, salinity, and cold temperatures?

- a) Auxin
 - b) Gibberellin
 - c) Cytokinin
 - d) Absciscic acid
- Answer: d) Absciscic acid

Which of the following is a type of plant response to touch that involves growth and bending of plant parts in response to touch?

- a) Tropism
 - b) Phototropism
 - c) Thigmotropism
 - d) Thigmonasty
- Answer: c) Thigmotropism

Which of the following is a type of plant tissue that stores water and nutrients for the plant?

- a) Dermal tissue
 - b) Vascular tissue
 - c) Ground tissue
 - d) Parenchyma tissue
- Answer: d) Parenchyma tissue

Which of the following is a type of plant hormone that is responsible for promoting lateral bud growth and inhibiting apical dominance?

- a) Auxin
- b) Gibberellin

c) Cytokinin

d) Ethylene

Answer: c) Cytokinin

Which of the following is a type of plant response to gravity that involves growth and bending of plant parts in response to gravity?

a) Phototropism

b) Geotropism

c) Thigmotropism

d) Chemotropism

Answer: b) Geotropism

Which of the following is a type of plant tissue that is responsible for transporting water, nutrients, and other substances throughout the plant?

a) Dermal tissue

b) Vascular tissue

c) Ground tissue

d) Meristematic tissue

Answer: b) Vascular tissue

Which of the following is a type of plant hormone that promotes root growth and branching?

a) Auxin

b) Gibberellin

c) Cytokinin

d) Ethylene

Answer: a) Auxin

Which of the following is a type of plant response to touch that involves long-term growth changes in response to touch or other mechanical stimuli?

a) Tropism

b) Phototropism

c) Thigmomorphogenesis

d) Skototropism

Answer: c) Thigmomorphogenesis

Which of the following is a type of plant tissue that is responsible for producing new cells for growth and development?

a) Dermal tissue

b) Vascular tissue

c) Ground tissue

d) Meristematic tissue

Answer: d) Meristematic tissue

Which of the following is a type of plant hormone that is responsible for fruit ripening and leaf abscission?

a) Auxin

b) Gibberellin

c) Cytokinin

d) Ethylene

Answer: d) Ethylene

Which of the following is a type of plant response to light that involves growth away from the source of light?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Skototropism

Answer: d) Skototropism

Which of the following is a type of plant tissue that is responsible for providing support and structure for the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Sclerenchyma tissue

Answer: d) Sclerenchyma tissue

Which of the following is a type of plant hormone that is responsible for promoting fruit development and ripening?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: b) Gibberellin

Which of the following is a type of plant response to touch that involves growth towards the direction of touch or other mechanical stimuli?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Thigmonasty

Answer: c) Thigmotropism

Which of the following is a type of plant tissue that covers and protects the plant's surface?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Meristematic tissue

Answer: a) Dermal tissue

Which of the following is a type of plant hormone that promotes cell division and growth in the shoot and root apices?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: c) Cytokinin

Which of the following is a type of plant response to touch that involves rapid, reversible movement in response to touch or other mechanical stimuli?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Thigmonasty

Answer: d) Thigmonasty

Which of the following is a type of plant tissue that is responsible for photosynthesis?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Mesophyll tissue

Answer: d) Mesophyll tissue

Which of the following is a type of plant hormone that inhibits growth and promotes dormancy in buds and seeds?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: d) Absciscic acid

Which of the following is a type of plant response to light that involves growth towards the source of light?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Skototropism

Answer: b) Phototropism

Which of the following is a type of plant tissue that is responsible for storing food and water?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Parenchyma tissue

Answer: d) Parenchyma tissue

Which of the following is a type of plant hormone that is responsible for promoting cell elongation and stem growth?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Ethylene

Answer: a) Auxin

Which of the following is a type of plant response to touch that involves a rapid, irreversible movement in response to touch or other mechanical stimuli?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Nastic movement

Answer: d) Nastic movement

Which of the following is a type of plant tissue that is responsible for producing and storing oils, resins, and latex?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Secretory tissue

Answer: d) Secretory tissue

What is the process by which plants lose water through their leaves?

- a) Respiration
- b) Transpiration
- c) Photosynthesis
- d) Absorption

Answer: b) Transpiration

Which part of the plant absorbs water and minerals from the soil?

- a) Leaves
- b) Stem
- c) Roots
- d) Flowers

Answer: c) Roots

Which of the following is a type of plant tissue that is responsible for transporting water and minerals from the roots to the rest of the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Meristematic tissue

Answer: b) Vascular tissue

Which of the following is a type of plant hormone that is responsible for the ripening of fruits?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Ethylene

Answer: d) Ethylene

What is the process by which plants convert light energy into chemical energy in the form of glucose?

- a) Respiration
- b) Transpiration
- c) Photosynthesis
- d) Absorption

Answer: c) Photosynthesis

Which of the following is a type of plant response to gravity?

- a) Tropism
- b) Phototropism
- c) Gravitropism
- d) Skototropism

Answer: c) Gravitropism

Which of the following is a type of plant tissue that is responsible for producing and transporting sugars throughout the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Sieve tube elements

Answer: d) Sieve tube elements

Which of the following is a type of plant hormone that is responsible for stimulating seed germination and stem elongation?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: b) Gibberellin

Which of the following is a type of plant response to light that involves growth away from the source of light?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Skototropism

Answer: d) Skototropism

Which of the following is a type of plant tissue that is responsible for providing structural support to the plant?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue
- d) Sclerenchyma tissue

Answer: d) Sclerenchyma tissue

Which of the following is the process by which some plants, such as peas and beans, convert nitrogen gas from the atmosphere into a form that can be used by the plant?

- a) Respiration

- b) Transpiration
 - c) Photosynthesis
 - d) Nitrogen fixation
- Answer: d) Nitrogen fixation

Which of the following is a type of asexual reproduction in plants where new individuals are formed from the parent plant's vegetative parts such as stem, leaves, and roots?

- a) Budding
- b) Fragmentation
- c) Spore formation
- d) Vegetative propagation

Answer: d) Vegetative propagation

Which of the following is the process by which plant cells differentiate into specialized cells with specific functions?

- a) Cell division
- b) Cell differentiation
- c) Cell elongation
- d) Cell specialization

Answer: b) Cell differentiation

Which of the following is a type of plant hormone that is responsible for stimulating cell elongation and growth?

- a) Auxin
- b) Gibberellin
- c) Cytokinin
- d) Absciscic acid

Answer: a) Auxin

Which of the following is the process by which plants shed their leaves?

- a) Photosynthesis
- b) Transpiration
- c) Abscission
- d) Respiration

Answer: c) Abscission

Which of the following is a type of plant response to touch?

- a) Tropism
- b) Phototropism
- c) Thigmotropism
- d) Gravitropism

Answer: c) Thigmotropism

Which of the following is a type of plant tissue that is responsible for protecting the plant from water loss and physical damage?

- a) Dermal tissue
- b) Vascular tissue
- c) Ground tissue

d) Meristematic tissue

Answer: a) Dermal tissue

Which of the following is a type of plant hormone that is responsible for promoting cell division and delaying senescence?

a) Auxin

b) Gibberellin

c) Cytokinin

d) Ethylene

Answer: c) Cytokinin

Which of the following is a type of plant response to light that involves growth towards the source of light?

a) Tropism

b) Phototropism

c) Thigmotropism

d) Skototropism

Answer: b) Phototropism

Which of the following is a type of plant tissue that is responsible for storing food, water, and other substances?

a) Dermal tissue

b) Vascular tissue

c) Ground tissue

d) Parenchyma tissue

Answer: d) Parenchyma tissue

Aptitude of Nursing

What is the term used to describe the amount of oxygen consumed by the body during rest?

a) Basal metabolic rate

b) Resting metabolic rate

c) Active metabolic rate

d) Total metabolic rate

Answer: b) Resting metabolic rate

Which of the following is the process by which drugs are eliminated from the body?

a) Absorption

b) Distribution

c) Metabolism

d) Excretion

Answer: d) Excretion

Which of the following is the ability to understand and share the feelings of others?

a) Empathy

b) Sympathy

c) Compassion

d) Apathy

Answer: a) Empathy

Which of the following is the term used to describe the ability to use one's hands and fingers to manipulate small objects?

a) Dexterity

b) Flexibility

c) Strength

d) Endurance

Answer: a) Dexterity

What is the term used to describe the process by which a person learns new information or skills?

a) Memory

b) Learning

c) Cognition

d) Perception

Answer: b) Learning

What is the term used to describe the process of monitoring and controlling one's own thoughts and behavior?

a) Self-awareness

b) Self-regulation

c) Self-efficacy

d) Self-esteem

Answer: b) Self-regulation

Which of the following is the process by which food is broken down and converted into energy by the body?

a) Digestion

b) Absorption

c) Metabolism

d) Excretion

Answer: c) Metabolism

Which of the following is the ability to think and reason logically?

a) Intelligence

b) Creativity

c) Memory

d) Emotion

Answer: a) Intelligence

Which of the following is the process by which the body's immune system protects against foreign substances, such as bacteria and viruses?

a) Immunity

b) Vaccination

c) Antibody production

d) Inflammation

Answer: a) Immunity

Which of the following is the ability to remain calm and focused under stressful or challenging situations?

- a) Resilience
- b) Coping skills
- c) Adaptability
- d) Self-care

Answer: a) Resilience

Which of the following is the term used to describe the branch of medicine that focuses on the prevention, diagnosis, and treatment of mental illness?

- a) Psychiatry
- b) Psychology
- c) Neurology
- d) Oncology

Answer: a) Psychiatry

What is the term used to describe the ability to think creatively and come up with new ideas?

- a) Imagination
- b) Innovation
- c) Invention
- d) Creativity

Answer: d) Creativity

Which of the following is the process by which the body converts food into energy?

- a) Digestion
- b) Absorption
- c) Metabolism
- d) Excretion

Answer: c) Metabolism

Which of the following is the ability to understand and interpret complex written information?

- a) Literacy
- b) Numeracy
- c) Critical thinking
- d) Reading comprehension

Answer: d) Reading comprehension

What is the term used to describe the process by which a person acquires knowledge, skills, and values that are necessary to function effectively in society?

- a) Education
- b) Training
- c) Learning
- d) Development

Answer: a) Education

Which of the following is the ability to solve problems by breaking them down into smaller parts and identifying possible solutions?

- a) Analytical thinking
- b) Critical thinking
- c) Creative thinking
- d) Logical thinking

Answer: a) Analytical thinking

Which of the following is the ability to understand and use spoken language effectively?

- a) Literacy
- b) Numeracy
- c) Oracy
- d) Articulation

Answer: c) Oracy

What is the term used to describe the process of providing care and support to individuals who are ill, disabled, or elderly?

- a) Nursing
- b) Healthcare
- c) Medicine
- d) Therapy

Answer: a) Nursing

Which of the following is the ability to use numbers and mathematical concepts to solve problems?

- a) Literacy
- b) Numeracy
- c) Critical thinking
- d) Logical reasoning

Answer: b) Numeracy

What is the term used to describe the process by which a person adapts to changes in their environment or circumstances?

- a) Resilience
- b) Coping skills
- c) Adaptability
- d) Self-care

Answer: c) Adaptability

Which of the following is the term used to describe the practice of promoting health and preventing disease through the use of vaccines?

- a) Immunology
- b) Vaccination
- c) Immunization
- d) Inoculation

Answer: c) Immunization

What is the term used to describe the process of analyzing and interpreting data to make informed decisions?

- a) Statistics
- b) Analytics
- c) Data mining
- d) Business intelligence

Answer: b) Analytics

Which of the following is the ability to effectively communicate and interact with others?

- a) Empathy
- b) Interpersonal skills
- c) Emotional intelligence
- d) Social skills

Answer: b) Interpersonal skills

What is the term used to describe the study of the structure and function of the human body?

- a) Physiology
- b) Anatomy
- c) Histology
- d) Pathology

Answer: b) Anatomy

Which of the following is the ability to understand and manage one's own emotions, as well as the emotions of others?

- a) Empathy
- b) Interpersonal skills
- c) Emotional intelligence
- d) Social skills

Answer: c) Emotional intelligence

What is the term used to describe the process of creating a plan or strategy to achieve a specific goal?

- a) Planning
- b) Goal setting
- c) Strategic thinking
- d) Problem solving

Answer: c) Strategic thinking

Which of the following is the ability to use language effectively and appropriately in a variety of contexts?

- a) Literacy
- b) Oracy
- c) Writing skills
- d) Grammar

Answer: b) Oracy

What is the term used to describe the branch of medicine that focuses on the diagnosis and treatment of diseases of the heart and blood vessels?

- a) Cardiology
 - b) Pulmonology
 - c) Endocrinology
 - d) Gastroenterology
- Answer: a) Cardiology

Which of the following is the ability to work effectively and efficiently with others towards a common goal?

- a) Collaboration
 - b) Leadership
 - c) Management
 - d) Delegation
- Answer: a) Collaboration

What is the term used to describe the process of identifying and addressing the physical, psychological, and social needs of patients?

- a) Diagnosis
 - b) Treatment
 - c) Care management
 - d) Assessment
- Answer: c) Care management

Which of the following is the term used to describe the practice of administering medications through injection into a vein?

- a) Intramuscular injection
 - b) Subcutaneous injection
 - c) Intravenous injection
 - d) Intradermal injection
- Answer: c) Intravenous injection

What is the term used to describe the process of providing care and treatment to patients in their own homes?

- a) Home healthcare
 - b) Hospice care
 - c) Palliative care
 - d) Long-term care
- Answer: a) Home healthcare

Which of the following is the term used to describe the measurement of a patient's vital signs, such as blood pressure, pulse rate, and body temperature?

- a) Physical examination
 - b) Diagnostic testing
 - c) Vital sign monitoring
 - d) Health assessment
- Answer: c) Vital sign monitoring

What is the term used to describe the process of evaluating a patient's medical history, symptoms, and test results to make a diagnosis?

- a) Diagnosis
- b) Treatment
- c) Assessment
- d) Evaluation

Answer: a) Diagnosis

Which of the following is the term used to describe the practice of providing care and treatment to patients with life-limiting illnesses, with a focus on relieving pain and improving quality of life?

- a) Home healthcare
- b) Hospice care
- c) Palliative care
- d) Long-term care

Answer: b) Hospice care

What is the term used to describe the process of helping patients and their families cope with the emotional, psychological, and spiritual aspects of illness and healthcare?

- a) Counseling
- b) Therapy
- c) Psychosocial care
- d) Mental health support

Answer: c) Psychosocial care

Which of the following is the term used to describe the branch of medicine that focuses on the diagnosis and treatment of disorders of the digestive system?

- a) Cardiology
- b) Pulmonology
- c) Endocrinology
- d) Gastroenterology

Answer: d) Gastroenterology

What is the term used to describe the process of providing care and treatment to patients who are approaching the end of their lives, with a focus on managing symptoms and providing comfort?

- a) Home healthcare
- b) Hospice care
- c) Palliative care
- d) Long-term care

Answer: c) Palliative care

Which of the following is the term used to describe the process of sterilizing equipment and instruments to prevent the spread of infection?

- a) Disinfection
- b) Antisepsis
- c) Sterilization
- d) Sanitization

Answer: c) Sterilization

What is the term used to describe the process of using medication to treat or prevent disease?

- a) Pharmacology
- b) Prescription
- c) Medication management
- d) Drug therapy

Answer: d) Drug therapy

Which of the following is the term used to describe the process of providing emotional and practical support to patients and their families, with a focus on improving quality of life?

- a) Social work
- b) Counseling
- c) Case management
- d) Patient advocacy

Answer: d) Patient advocacy

What is the term used to describe the process of identifying potential health risks or conditions in a patient before they become more serious?

- a) Primary prevention
- b) Secondary prevention
- c) Tertiary prevention
- d) Health screening

Answer: d) Health screening

Which of the following is the term used to describe the process of managing a patient's medication regimen to ensure safety and effectiveness?

- a) Medication reconciliation
- b) Medication management
- c) Prescription management
- d) Drug therapy management

Answer: b) Medication management

What is the term used to describe the process of providing care and treatment to patients with chronic illnesses or disabilities, with a focus on improving their quality of life?

- a) Home healthcare
- b) Long-term care
- c) Palliative care
- d) Rehabilitation

Answer: b) Long-term care

Which of the following is the term used to describe the process of providing care and treatment to patients with mental health disorders?

- a) Psychiatry
 - b) Psychology
 - c) Mental health nursing
 - d) Behavioral health
- Answer: c) Mental health nursing

What is the term used to describe the process of providing care and treatment to patients with respiratory disorders, such as asthma or COPD?

- a) Pulmonology
- b) Cardiology
- c) Neurology
- d) Rheumatology

Answer: a) Pulmonology

Which of the following is the term used to describe the process of monitoring a patient's heart function, such as EKG monitoring or cardiac catheterization?

- a) Cardiology
- b) Endocrinology
- c) Gastroenterology
- d) Oncology

Answer: a) Cardiology

What is the term used to describe the process of providing care and treatment to patients with musculoskeletal disorders, such as arthritis or back pain?

- a) Rheumatology
- b) Orthopedics
- c) Neurology
- d) Physical therapy

Answer: b) Orthopedics

Which of the following is the term used to describe the process of using radiation to treat cancer?

- a) Chemotherapy
- b) Radiation therapy
- c) Immunotherapy
- d) Targeted therapy

Answer: b) Radiation therapy

What is the term used to describe the process of using drugs to treat cancer?

- a) Chemotherapy
- b) Radiation therapy
- c) Immunotherapy
- d) Targeted therapy

Answer: a) Chemotherapy

Which of the following is the term used to describe the process of providing care and treatment to patients with kidney disorders, such as chronic kidney disease or kidney stones?

- a) Nephrology
- b) Urology
- c) Endocrinology
- d) Hematology

Answer: a) Nephrology

What is the term used to describe the process of providing care and treatment to patients with skin disorders, such as eczema or psoriasis?

- a) Dermatology
- b) Oncology
- c) Pulmonology
- d) Hematology

Answer: a) Dermatology

Which of the following is the term used to describe the process of providing care and treatment to newborn infants, especially those who are premature or have medical conditions?

- a) Neonatology
- b) Pediatrics
- c) Obstetrics
- d) Gynecology

Answer: a) Neonatology

What is the term used to describe the process of providing care and treatment to patients with digestive disorders, such as Crohn's disease or ulcerative colitis?

- a) Gastroenterology
- b) Endocrinology
- c) Nephrology
- d) Hematology

Answer: a) Gastroenterology

Which of the following is the term used to describe the process of providing care and treatment to patients with hormonal imbalances or disorders, such as diabetes or thyroid disorders?

- a) Endocrinology
- b) Neurology
- c) Rheumatology
- d) Cardiology

Answer: a) Endocrinology

What is the term used to describe the process of providing care and treatment to patients with neurological disorders, such as Alzheimer's disease or Parkinson's disease?

- a) Neurology
- b) Cardiology
- c) Pulmonology
- d) Hematology

Answer: a) Neurology

Which of the following is the term used to describe the process of providing care and treatment to patients with blood disorders, such as anemia or leukemia?

- a) Hematology
- b) Oncology
- c) Dermatology
- d) Nephrology

Answer: a) Hematology

What is the term used to describe the process of providing care and treatment to patients with reproductive health issues, such as infertility or sexually transmitted infections?

- a) Obstetrics
- b) Gynecology
- c) Urology
- d) Endocrinology

Answer: b) Gynecology

Which of the following is the term used to describe the process of providing care and treatment to patients with heart and vascular disorders, such as heart disease or hypertension?

- a) Cardiology
- b) Pulmonology
- c) Neurology
- d) Rheumatology

Answer: a) Cardiology

What is the term used to describe the process of providing care and treatment to patients with cancer?

- a) Oncology
- b) Hematology
- c) Dermatology
- d) Pulmonology

Answer: a) Oncology

Which of the following is the term used to describe the process of providing care and treatment to patients with respiratory disorders, such as asthma or chronic obstructive pulmonary disease (COPD)?

- a) Pulmonology
- b) Endocrinology
- c) Gastroenterology
- d) Hematology

Answer: a) Pulmonology

What is the term used to describe the process of providing care and treatment to patients with joint and connective tissue disorders, such as arthritis or lupus?

- a) Rheumatology
- b) Oncology
- c) Neurology
- d) Cardiology

Answer: a) Rheumatology

Which of the following is the term used to describe the process of providing care and treatment to patients with ear, nose, and throat disorders, such as allergies or sinus infections?

- a) Otolaryngology

- b) Gastroenterology
 - c) Endocrinology
 - d) Hematology
- Answer: a) Otolaryngology

What is the term used to describe the process of providing care and treatment to patients with vision and eye disorders, such as glaucoma or cataracts?

- a) Ophthalmology
- b) Oncology
- c) Pulmonology
- d) Rheumatology

Answer: a) Ophthalmology

Which of the following is the term used to describe the process of providing care and treatment to patients with injuries or disorders of the musculoskeletal system, such as broken bones or sports injuries?

- a) Orthopedics
- b) Neurology
- c) Endocrinology
- d) Hematology

Answer: a) Orthopedics

What is the term used to describe the process of providing care and treatment to patients with kidney, bladder, and urinary tract disorders, such as urinary tract infections or kidney stones?

- a) Urology
- b) Nephrology
- c) Dermatology
- d) Cardiology

Answer: a) Urology

Which of the following is the term used to describe the process of providing care and treatment to patients with mental health disorders, such as depression or anxiety?

- a) Psychiatry
- b) Neurology
- c) Pulmonology
- d) Hematology

Answer: a) Psychiatry

What is the term used to describe the process of providing care and treatment to patients with dental and oral health issues, such as cavities or gum disease?

- a) Dentistry
- b) Gynecology
- c) Obstetrics
- d) Endocrinology

Answer: a) Dentistry

Which of the following is the term used to describe the process of providing care and treatment to patients with sports injuries and physical activity-related issues?

- a) Sports Medicine
- b) Oncology
- c) Dermatology
- d) Rheumatology

Answer: a) Sports Medicine

What is the term used to describe the process of providing care and treatment to patients with infectious diseases, such as influenza or tuberculosis?

- a) Infectious Disease
- b) Hematology
- c) Oncology
- d) Pulmonology

Answer: a) Infectious Disease

What is the term used to describe the process of providing care and treatment to patients with digestive disorders, such as irritable bowel syndrome or acid reflux?

- a) Gastroenterology
- b) Nephrology
- c) Dermatology
- d) Hematology

Answer: a) Gastroenterology

Which of the following is the term used to describe the process of providing care and treatment to patients with heart and cardiovascular disorders, such as heart attacks or high blood pressure?

- a) Cardiology
- b) Oncology
- c) Neurology
- d) Pulmonology

Answer: a) Cardiology

What is the term used to describe the process of providing care and treatment to patients with women's reproductive health issues, such as menstrual disorders or infertility?

- a) Gynecology
- b) Obstetrics
- c) Urology
- d) Endocrinology

Answer: a) Gynecology

Which of the following is the term used to describe the process of providing care and treatment to patients with conditions related to the nervous system, such as multiple sclerosis or Parkinson's disease?

- a) Neurology
- b) Hematology
- c) Pulmonology
- d) Rheumatology

Answer: a) Neurology

What is the term used to describe the process of providing care and treatment to patients with skin disorders, such as acne or eczema?

- a) Dermatology
- b) Gynecology
- c) Obstetrics
- d) Endocrinology

Answer: a) Dermatology

Which of the following is the term used to describe the process of providing care and treatment to patients with cancer and tumors?

- a) Oncology
- b) Cardiology
- c) Urology
- d) Orthopedics

Answer: a) Oncology

What is the term used to describe the process of providing care and treatment to pregnant women, including prenatal care, childbirth, and postpartum care?

- a) Obstetrics
- b) Gynecology
- c) Urology
- d) Dermatology

Answer: a) Obstetrics

Which of the following is the term used to describe the process of providing care and treatment to patients with endocrine system disorders, such as diabetes or thyroid problems?

- a) Endocrinology
- b) Pulmonology
- c) Rheumatology
- d) Orthopedics

Answer: a) Endocrinology

What is the term used to describe the process of providing care and treatment to patients with blood disorders, such as anemia or leukemia?

- a) Hematology
- b) Nephrology
- c) Dermatology
- d) Cardiology

Answer: a) Hematology

Which of the following is the term used to describe the process of providing care and treatment to patients with kidney disorders, such as kidney failure or kidney stones?

- a) Nephrology
- b) Urology
- c) Rheumatology

d) Orthopedics

Answer: a) Nephrology

What is the term used to describe the process of providing care and treatment to patients with respiratory disorders, such as asthma or COPD?

a) Pulmonology

b) Cardiology

c) Endocrinology

d) Dermatology

Answer: a) Pulmonology

Which of the following is the term used to describe the process of providing care and treatment to patients with musculoskeletal disorders, such as arthritis or back pain?

a) Orthopedics

b) Nephrology

c) Hematology

d) Dermatology

Answer: a) Orthopedics

What is the term used to describe the process of providing care and treatment to patients with urinary system disorders, such as bladder infections or urinary incontinence?

a) Urology

b) Gynecology

c) Obstetrics

d) Neurology

Answer: a) Urology

Which of the following is the term used to describe the process of providing care and treatment to patients with immune system disorders, such as lupus or rheumatoid arthritis?

a) Rheumatology

b) Endocrinology

c) Hematology

d) Pulmonology

Answer: a) Rheumatology

What is the term used to describe the process of providing care and treatment to patients with mental health disorders, such as depression or anxiety?

a) Psychiatry

b) Psychology

c) Neurology

d) Endocrinology

Answer: a) Psychiatry

Which of the following is the term used to describe the process of providing care and treatment to patients with eye disorders, such as cataracts or glaucoma?

a) Ophthalmology

b) Dermatology

c) Gynecology

d) Oncology

Answer: a) Ophthalmology

What is the term used to describe the process of providing care and treatment to patients with ear, nose, and throat disorders, such as sinusitis or hearing loss?

a) Otolaryngology

b) Nephrology

c) Gynecology

d) Dermatology

Answer: a) Otolaryngology

Which of the following is the term used to describe the process of providing care and treatment to patients with liver and gallbladder disorders, such as cirrhosis or hepatitis?

a) Hepatology

b) Cardiology

c) Pulmonology

d) Hematology

Answer: a) Hepatology

What is the term used to describe the process of providing care and treatment to children from birth through adolescence?

a) Pediatrics

b) Geriatrics

c) Obstetrics

d) Gynecology

Answer: a) Pediatrics

Which of the following is the term used to describe the process of providing care and treatment to elderly patients?

a) Geriatrics

b) Pediatrics

c) Obstetrics

d) Gynecology

Answer: a) Geriatrics

Which of the following is the term used to describe the process of providing care and treatment to patients with digestive system disorders, such as ulcers or irritable bowel syndrome?

a) Gastroenterology

b) Neurology

c) Rheumatology

d) Pulmonology

Answer: a) Gastroenterology

What is the term used to describe the process of providing care and treatment to patients with heart and circulatory system disorders, such as heart attacks or high blood pressure?

a) Cardiology

b) Hematology

c) Endocrinology

d) Dermatology

Answer: a) Cardiology

Which of the following is the term used to describe the process of providing care and treatment to patients with cancer?

a) Oncology

b) Rheumatology

c) Hematology

d) Pulmonology

Answer: a) Oncology

What is the term used to describe the process of providing care and treatment to patients with hormonal disorders, such as diabetes or thyroid problems?

a) Endocrinology

b) Gynecology

c) Urology

d) Ophthalmology

Answer: a) Endocrinology

Which of the following is the term used to describe the process of providing care and treatment to patients with kidney disorders, such as kidney stones or kidney failure?

a) Nephrology

b) Orthopedics

c) Otolaryngology

d) Pediatrics

Answer: a) Nephrology

What is the term used to describe the process of providing care and treatment to women's reproductive health, such as prenatal care or infertility treatment?

a) Obstetrics and Gynecology (OB/GYN)

b) Pediatrics

c) Geriatrics

d) Cardiology

Answer: a) Obstetrics and Gynecology (OB/GYN)

Which of the following is the term used to describe the process of providing care and treatment to patients with blood disorders, such as anemia or leukemia?

a) Hematology

b) Hepatology

c) Ophthalmology

d) Psychiatry

Answer: a) Hematology

What is the term used to describe the process of providing care and treatment to patients with skin disorders, such as eczema or psoriasis?

a) Dermatology

b) Rheumatology

c) Endocrinology

d) Nephrology

Answer: a) Dermatology

Which of the following is the term used to describe the process of providing care and treatment to patients with nervous system disorders, such as multiple sclerosis or Parkinson's disease?

a) Neurology

b) Pulmonology

c) Hematology

d) Rheumatology

Answer: a) Neurology

What is the term used to describe the process of providing care and treatment to patients with allergies, asthma, and other immune system disorders?

a) Immunology

b) Endocrinology

c) Gynecology

d) Oncology

Answer: a) Immunology

What is the term used to describe the process of providing care and treatment to patients with respiratory system disorders, such as asthma or chronic obstructive pulmonary disease (COPD)?

a) Pulmonology

b) Cardiology

c) Gastroenterology

d) Dermatology

Answer: a) Pulmonology

Which of the following is the term used to describe the process of providing care and treatment to patients with musculoskeletal system disorders, such as arthritis or back pain?

a) Orthopedics

b) Nephrology

c) Oncology

d) Psychiatry

Answer: a) Orthopedics

What is the term used to describe the process of providing care and treatment to patients with eye and vision disorders, such as cataracts or glaucoma?

a) Ophthalmology

b) Neurology

c) Hematology

d) Dermatology

Answer: a) Ophthalmology

Which of the following is the term used to describe the process of providing care and treatment to patients with digestive system disorders, such as liver disease or pancreatitis?

- a) Hepatology
- b) Nephrology
- c) Hematology
- d) Oncology

Answer: a) Hepatology

What is the term used to describe the process of providing care and treatment to children, from birth to adolescence?

- a) Pediatrics
- b) Geriatrics
- c) Oncology
- d) Cardiology

Answer: a) Pediatrics

Which of the following is the term used to describe the process of providing care and treatment to elderly patients?

- a) Geriatrics
- b) Pediatrics
- c) Obstetrics and Gynecology
- d) Pulmonology

Answer: a) Geriatrics

What is the term used to describe the process of providing care and treatment to patients with urinary system disorders, such as urinary tract infections or kidney stones?

- a) Urology
- b) Gastroenterology
- c) Rheumatology
- d) Endocrinology

Answer: a) Urology

Which of the following is the term used to describe the process of providing care and treatment to patients with mental health disorders, such as depression or anxiety?

- a) Psychiatry
- b) Dermatology
- c) Ophthalmology
- d) Pulmonology

Answer: a) Psychiatry

What is the term used to describe the process of providing care and treatment to patients with blood vessel and heart valve disorders, such as aortic aneurysms or heart valve disease?

- a) Cardiothoracic surgery
- b) Cardiology
- c) Endocrinology
- d) Neurology

Answer: a) Cardiothoracic surgery

Which of the following is the term used to describe the process of providing care and treatment to patients with joint disorders, such as rheumatoid arthritis or gout?

- a) Rheumatology
- b) Nephrology
- c) Oncology
- d) Hematology

Answer: a) Rheumatology

What is the term used to describe the process of providing care and treatment to patients with hormonal imbalances, such as diabetes or thyroid disorders?

- a) Endocrinology
- b) Dermatology
- c) Pulmonology
- d) Ophthalmology

Answer: a) Endocrinology

Which of the following is the term used to describe the process of providing care and treatment to patients with cancer?

- a) Oncology
- b) Cardiology
- c) Nephrology
- d) Rheumatology

Answer: a) Oncology

What is the term used to describe the process of providing care and treatment to women, specifically related to their reproductive health, such as pregnancy and childbirth?

- a) Obstetrics and Gynecology
- b) Pediatrics
- c) Orthopedics
- d) Urology

Answer: a) Obstetrics and Gynecology

Which of the following is the term used to describe the process of providing care and treatment to patients with kidney disorders, such as chronic kidney disease or kidney failure?

- a) Nephrology
- b) Endocrinology
- c) Oncology
- d) Rheumatology

Answer: a) Nephrology

What is the term used to describe the process of providing care and treatment to patients with skin disorders, such as acne or eczema?

- a) Dermatology
- b) Hematology
- c) Oncology
- d) Gastroenterology

Answer: a) Dermatology

Which of the following is the term used to describe the process of providing care and treatment to patients with neurological disorders, such as Alzheimer's disease or Parkinson's disease?

- a) Neurology
- b) Cardiology
- c) Endocrinology
- d) Rheumatology

Answer: a) Neurology

What is the term used to describe the process of providing care and treatment to patients with blood disorders, such as anemia or leukemia?

- a) Hematology
- b) Gastroenterology
- c) Ophthalmology
- d) Orthopedics

Answer: a) Hematology

Which of the following is the term used to describe the process of providing care and treatment to patients with ear, nose, and throat disorders, such as sinusitis or tonsillitis?

- a) Otolaryngology
- b) Urology
- c) Hepatology
- d) Psychiatry

Answer: a) Otolaryngology

What is the term used to describe the process of providing care and treatment to patients with infectious diseases, such as tuberculosis or HIV/AIDS?

- a) Infectious disease
- b) Hematology
- c) Rheumatology
- d) Cardiology

Answer: a) Infectious disease

Which of the following is the term used to describe the process of providing care and treatment to patients with allergies and immune system disorders, such as lupus or rheumatoid arthritis?

- a) Immunology
- b) Dermatology
- c) Nephrology
- d) Pulmonology

Answer: a) Immunology

Which of the following is the term used to describe the process of providing care and treatment to patients with respiratory disorders, such as asthma or COPD?

- a) Pulmonology
- b) Oncology
- c) Hematology
- d) Dermatology

Answer: a) Pulmonology

What is the term used to describe the process of providing care and treatment to patients with heart and blood vessel disorders, such as heart disease or hypertension?

- a) Cardiology
- b) Endocrinology
- c) Neurology
- d) Pediatrics

Answer: a) Cardiology

Which of the following is the term used to describe the process of providing care and treatment to patients with digestive disorders, such as irritable bowel syndrome or Crohn's disease?

- a) Gastroenterology
- b) Nephrology
- c) Ophthalmology
- d) Orthopedics

Answer: a) Gastroenterology

What is the term used to describe the process of providing care and treatment to patients with mental health disorders, such as depression or anxiety?

- a) Psychiatry
- b) Psychology
- c) Neurology
- d) Immunology

Answer: a) Psychiatry

Which of the following is the term used to describe the process of providing care and treatment to patients with bone and joint disorders, such as arthritis or osteoporosis?

- a) Orthopedics
- b) Cardiology
- c) Otolaryngology
- d) Hematology

Answer: a) Orthopedics

What is the term used to describe the process of providing care and treatment to newborn infants, especially those who are premature or have medical complications?

- a) Neonatology
- b) Obstetrics and Gynecology
- c) Pediatrics
- d) Endocrinology

Answer: a) Neonatology

Which of the following is the term used to describe the process of providing care and treatment to patients with urinary tract disorders, such as urinary incontinence or kidney stones?

- a) Urology
- b) Gastroenterology

c) Hematology

d) Pulmonology

Answer: a) Urology

What is the term used to describe the process of providing care and treatment to patients with eye disorders, such as cataracts or glaucoma?

a) Ophthalmology

b) Dermatology

c) Hematology

d) Cardiology

Answer: a) Ophthalmology

Which of the following is the term used to describe the process of providing care and treatment to patients with endocrine disorders, such as diabetes or thyroid disease?

a) Endocrinology

b) Oncology

c) Neurology

d) Rheumatology

Answer: a) Endocrinology

What is the term used to describe the process of providing care and treatment to patients with vascular disorders, such as varicose veins or blood clots?

a) Vascular medicine

b) Pulmonology

c) Hematology

d) Dermatology

Answer: a) Vascular medicine

Which of the following is the term used to describe the process of providing care and treatment to patients with cancer?

a) Oncology

b) Dermatology

c) Gastroenterology

d) Ophthalmology

Answer: a) Oncology

What is the term used to describe the process of providing care and treatment to patients with immune system disorders, such as lupus or rheumatoid arthritis?

a) Immunology

b) Neurology

c) Pulmonology

d) Endocrinology

Answer: a) Immunology

Which of the following is the term used to describe the process of providing care and treatment to patients with ear, nose, and throat disorders, such as sinusitis or tonsillitis?

a) Otolaryngology

b) Cardiology

- c) Urology
- d) Hematology

Answer: a) Otolaryngology

What is the term used to describe the process of providing care and treatment to patients with skin disorders, such as eczema or psoriasis?

- a) Dermatology
- b) Oncology
- c) Gastroenterology
- d) Neonatology

Answer: a) Dermatology

Which of the following is the term used to describe the process of providing care and treatment to pregnant women and their unborn babies?

- a) Obstetrics
- b) Gynecology
- c) Pediatrics
- d) Neonatology

Answer: a) Obstetrics

What is the term used to describe the process of providing care and treatment to patients with brain and nervous system disorders, such as Alzheimer's or multiple sclerosis?

- a) Neurology
- b) Psychiatry
- c) Pulmonology
- d) Orthopedics

Answer: a) Neurology

Which of the following is the term used to describe the process of providing care and treatment to patients with kidney disorders, such as kidney failure or kidney stones?

- a) Nephrology
- b) Gastroenterology
- c) Hematology
- d) Urology

Answer: a) Nephrology

What is the term used to describe the process of providing care and treatment to patients with blood disorders, such as anemia or leukemia?

- a) Hematology
- b) Cardiology
- c) Ophthalmology
- d) Immunology

Answer: a) Hematology

Which of the following is the term used to describe the process of providing care and treatment to patients with reproductive system disorders, such as infertility or sexually transmitted infections?

- a) Gynecology

- b) Obstetrics
 - c) Urology
 - d) Pediatrics
- Answer: a) Gynecology

What is the term used to describe the process of providing care and treatment to patients with liver disorders, such as hepatitis or cirrhosis?

- a) Hepatology
- b) Nephrology
- c) Oncology
- d) Otolaryngology

Answer: a) Hepatology

What is the term used to describe the process of providing care and treatment to patients with respiratory system disorders, such as asthma or COPD?

- a) Pulmonology
- b) Cardiology
- c) Hematology
- d) Endocrinology

Answer: a) Pulmonology

Which of the following is the term used to describe the process of providing care and treatment to patients with digestive system disorders, such as gastritis or ulcers?

- a) Gastroenterology
- b) Nephrology
- c) Neurology
- d) Orthopedics

Answer: a) Gastroenterology

What is the term used to describe the process of providing care and treatment to patients with bone and joint disorders, such as arthritis or fractures?

- a) Orthopedics
- b) Neurology
- c) Cardiology
- d) Hematology

Answer: a) Orthopedics

Which of the following is the term used to describe the process of providing care and treatment to patients with heart and cardiovascular system disorders, such as heart attacks or hypertension?

- a) Cardiology
- b) Pulmonology
- c) Endocrinology
- d) Dermatology

Answer: a) Cardiology

What is the term used to describe the process of providing care and treatment to patients with endocrine system disorders, such as diabetes or thyroid disorders?

- a) Endocrinology
- b) Nephrology
- c) Pediatrics
- d) Ophthalmology

Answer: a) Endocrinology

Which of the following is the term used to describe the process of providing care and treatment to newborn infants?

- a) Neonatology
- b) Pediatrics
- c) Obstetrics
- d) Gynecology

Answer: a) Neonatology

What is the term used to describe the process of providing care and treatment to patients with urinary tract disorders, such as bladder infections or kidney stones?

- a) Urology
- b) Gastroenterology
- c) Otolaryngology
- d) Immunology

Answer: a) Urology

Which of the following is the term used to describe the process of providing care and treatment to children?

- a) Pediatrics
- b) Obstetrics
- c) Gynecology
- d) Oncology

Answer: a) Pediatrics

What is the term used to describe the process of providing care and treatment to patients with eye disorders, such as cataracts or glaucoma?

- a) Ophthalmology
- b) Dermatology
- c) Hematology
- d) Pulmonology

Answer: a) Ophthalmology

Which of the following is the term used to describe the process of providing care and treatment to patients with psychiatric disorders, such as depression or anxiety?

- a) Psychiatry
- b) Neurology
- c) Immunology
- d) Cardiology

Answer: a) Psychiatry

Which of the following is the term used to describe the process of providing care and treatment to patients with nervous system disorders, such as multiple sclerosis or Parkinson's disease?

- a) Neurology
- b) Hematology
- c) Endocrinology
- d) Urology

Answer: a) Neurology

What is the term used to describe the process of providing care and treatment to patients with blood disorders, such as anemia or leukemia?

- a) Hematology
- b) Cardiology
- c) Pulmonology
- d) Nephrology

Answer: a) Hematology

Which of the following is the term used to describe the process of providing care and treatment to patients with kidney and urinary tract disorders, such as kidney disease or bladder infections?

- a) Nephrology
- b) Urology
- c) Endocrinology
- d) Pediatrics

Answer: a) Nephrology

What is the term used to describe the process of providing care and treatment to pregnant women?

- a) Obstetrics
- b) Pediatrics
- c) Neonatology
- d) Gynecology

Answer: a) Obstetrics

Which of the following is the term used to describe the process of providing care and treatment to women's reproductive system disorders, such as menstrual disorders or ovarian cancer?

- a) Gynecology
- b) Obstetrics
- c) Neonatology
- d) Pediatrics

Answer: a) Gynecology

What is the term used to describe the process of providing care and treatment to patients with skin disorders, such as acne or eczema?

- a) Dermatology
- b) Ophthalmology
- c) Psychiatry

d) Immunology

Answer: a) Dermatology

Which of the following is the term used to describe the process of providing care and treatment to patients with ear, nose, and throat disorders, such as ear infections or sinusitis?

a) Otolaryngology

b) Urology

c) Nephrology

d) Hematology

Answer: a) Otolaryngology

What is the term used to describe the process of providing care and treatment to patients with immune system disorders, such as lupus or rheumatoid arthritis?

a) Immunology

b) Pulmonology

c) Cardiology

d) Orthopedics

Answer: a) Immunology

Which of the following is the term used to describe the process of providing care and treatment to patients with cancer?

a) Oncology

b) Neurology

c) Hematology

d) Cardiology

Answer: a) Oncology

What is the term used to describe the process of providing care and treatment to patients with liver and gallbladder disorders, such as hepatitis or gallstones?

a) Hepatology

b) Nephrology

c) Endocrinology

d) Pulmonology

Answer: a) Hepatology