

# **GNM Entrance Exam 2024**

**Best Guide E-Book**

**1.General Science**

**2.English**

**3.Mathematics**



## G.N.M Entrance Examination 2024-25

### **Exam Syllabus 10th Standard (HSLC)**

**General Science - 25 Marks**

**English - 50 Marks**

**Mathematics - 25 Marks**

**Total Marks: 100**

**Total Questions: 100 (Each question 1 Mark)**

There is no Negative Marking

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

Preparing this **E-book** Named **GNM Entrance Examination 2024-25** and we have covered Subject wise questions and answer from **General Science, English, Mathematics.....**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 G.N.M 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

**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?**

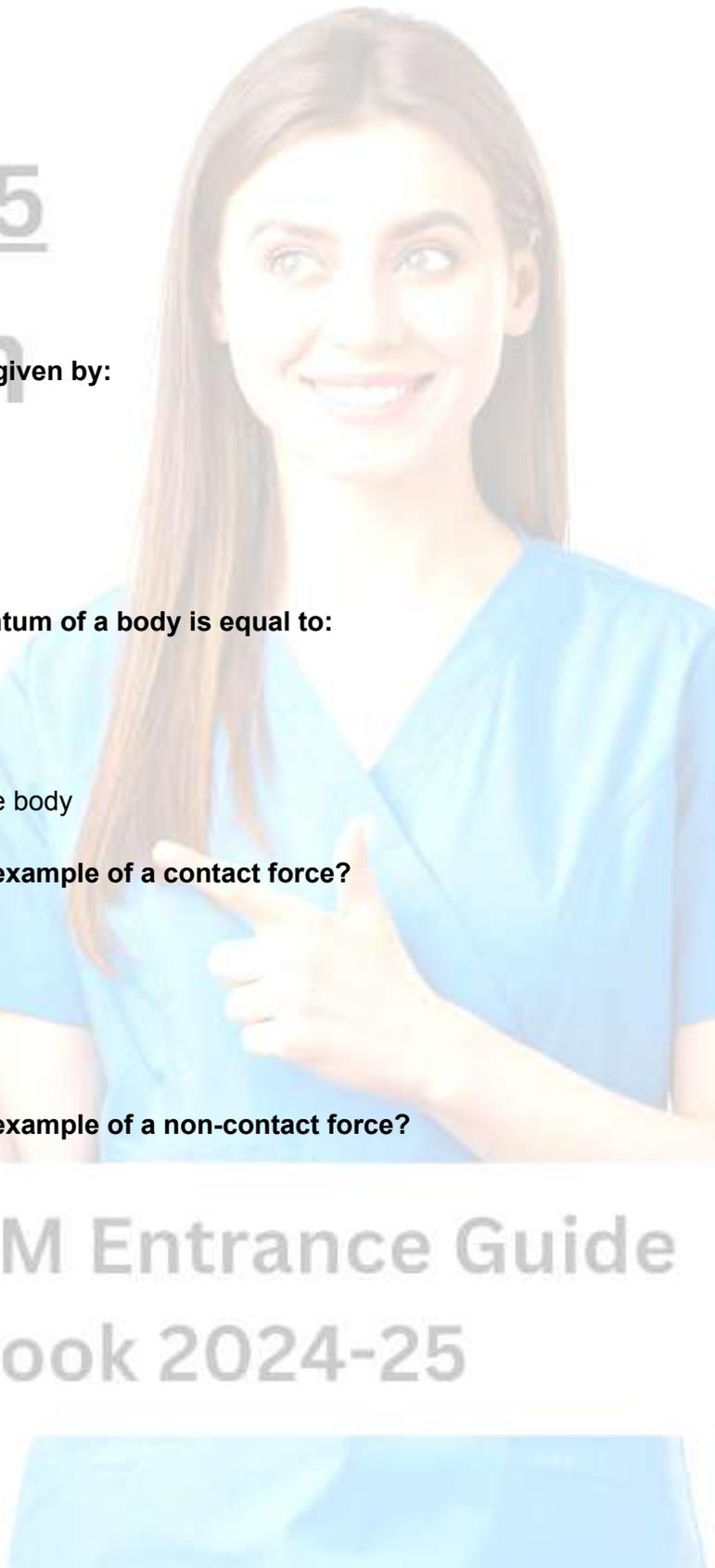
- a. Tension force
- b. Normal force
- c. Gravitational force
- d. Frictional force

Answer: c. Gravitational force

**7. The speed of light is:**

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

Answer: c.  $3 \times 10^8$  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

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

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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
- 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
- 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?**

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- 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

**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

**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

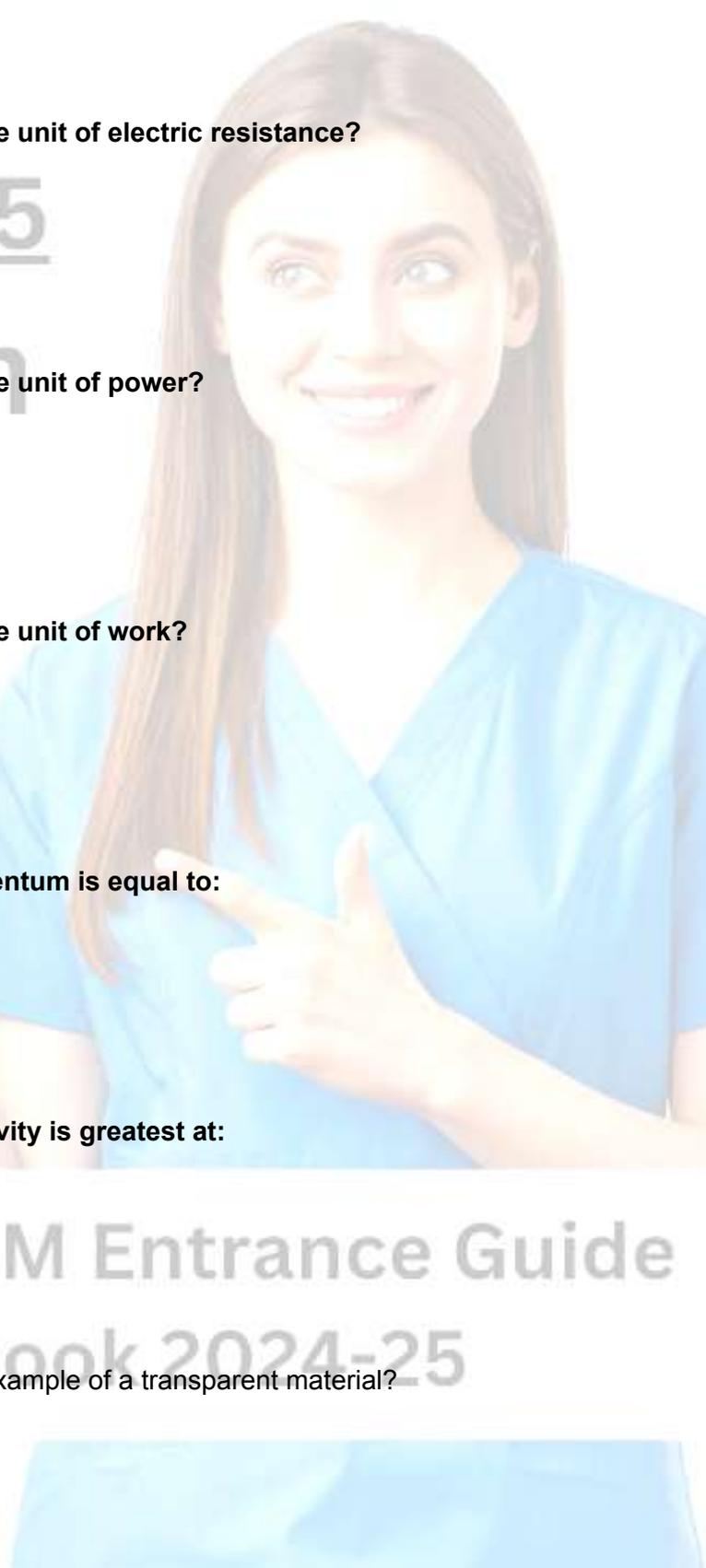
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42. Which of the following is an example of a translucent material?

- 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

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

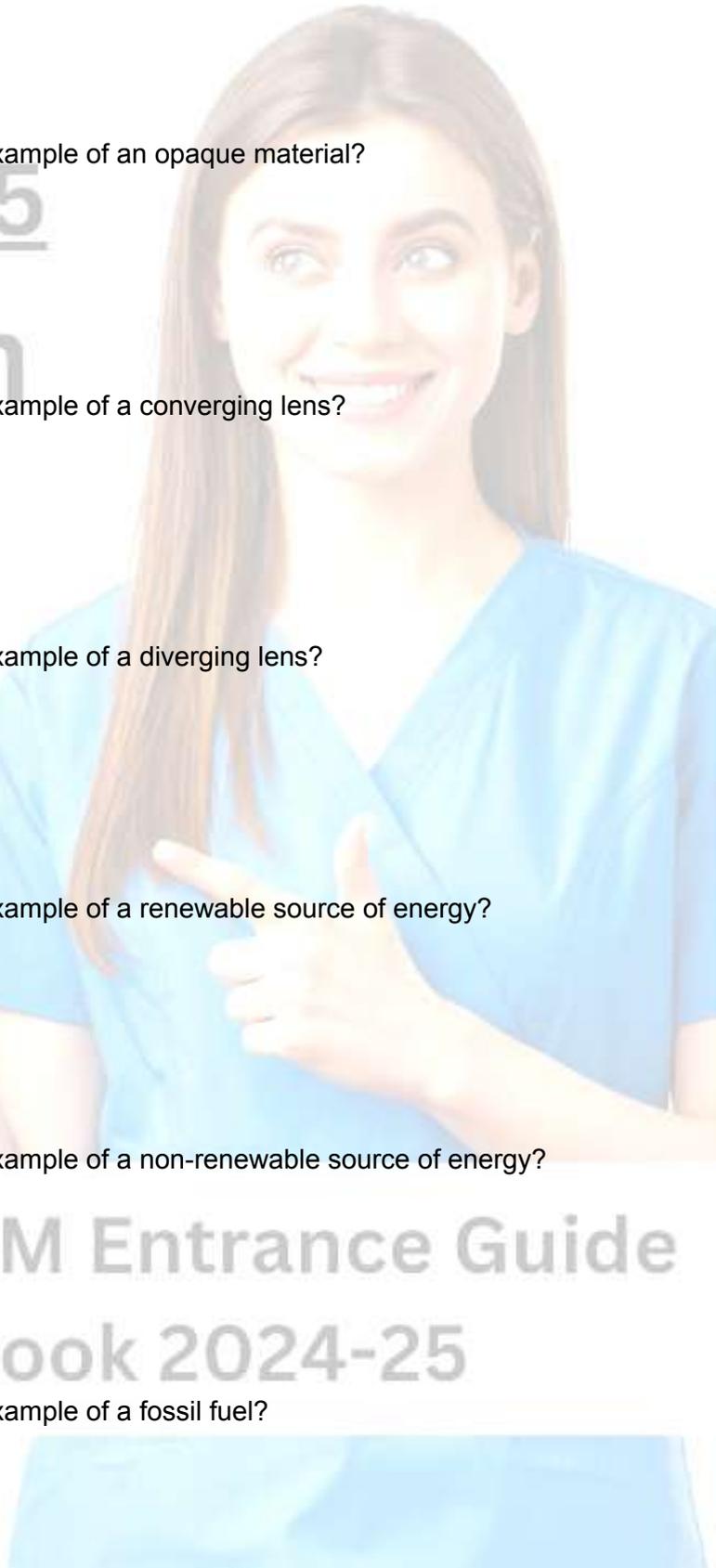
47. Which of the following is an example of a non-renewable source of energy?

- 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
- 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

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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
- 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

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- 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
- 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?

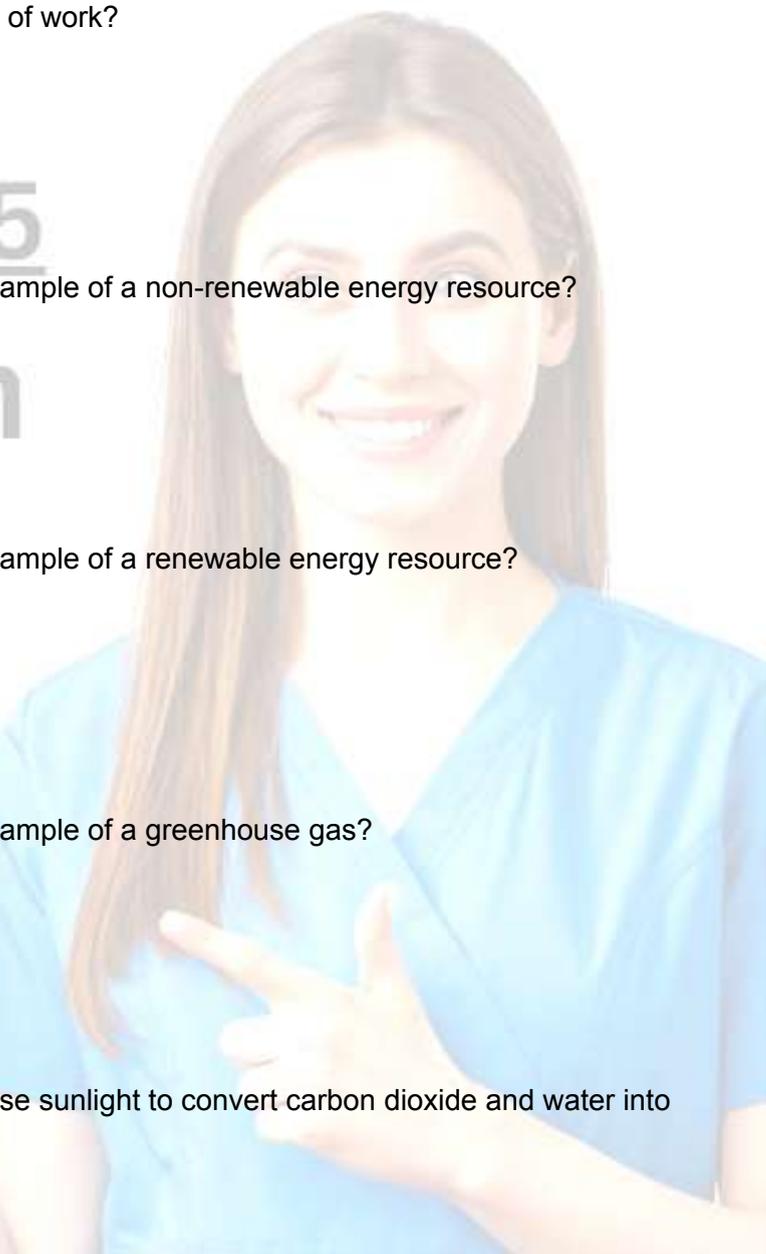
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- a) Red
- b) Blue
- c) Yellow
- d) White

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

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

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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

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

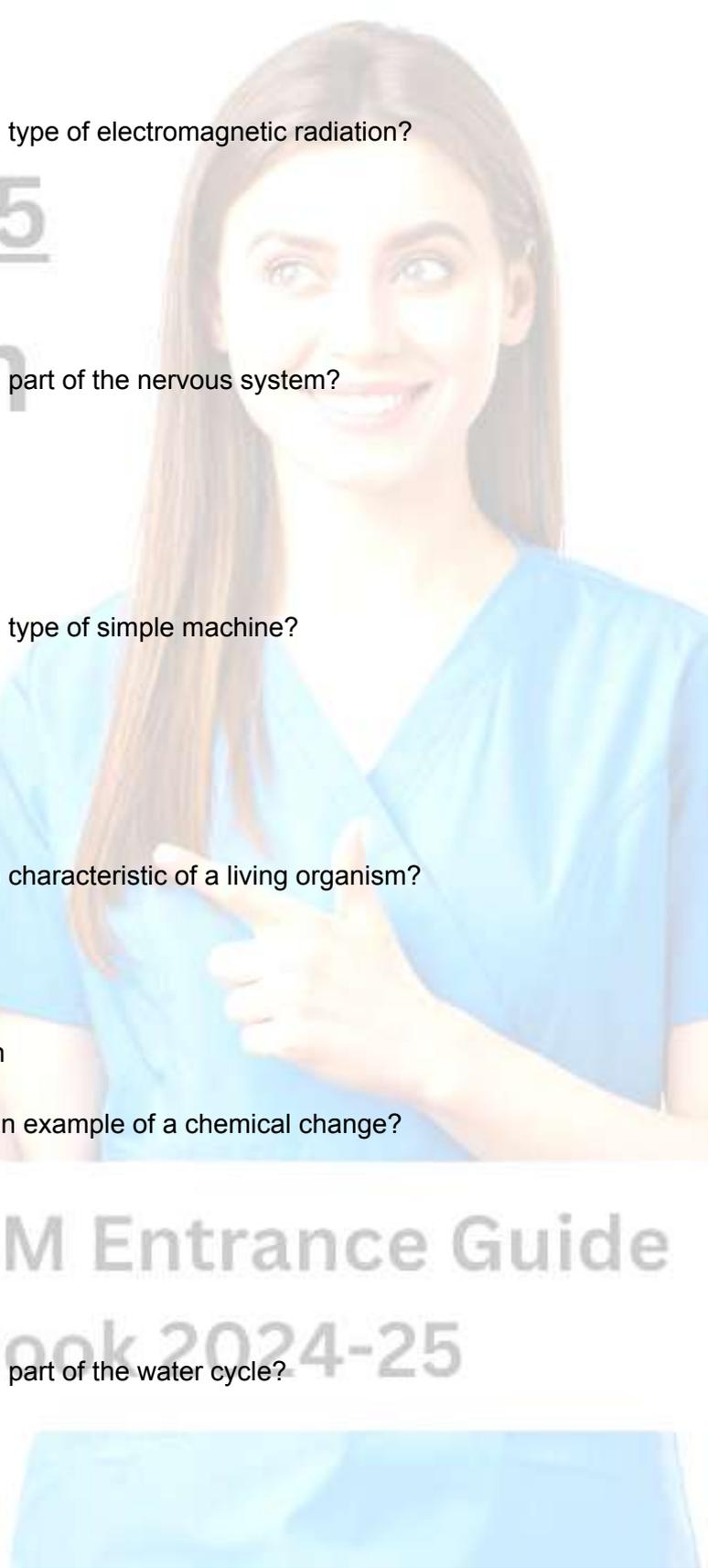
85. Which of the following is not a part of the water cycle?

- a) Evaporation
- b) Condensation
- c) Precipitation
- d) Filtration

Answer: d) Filtration

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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

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

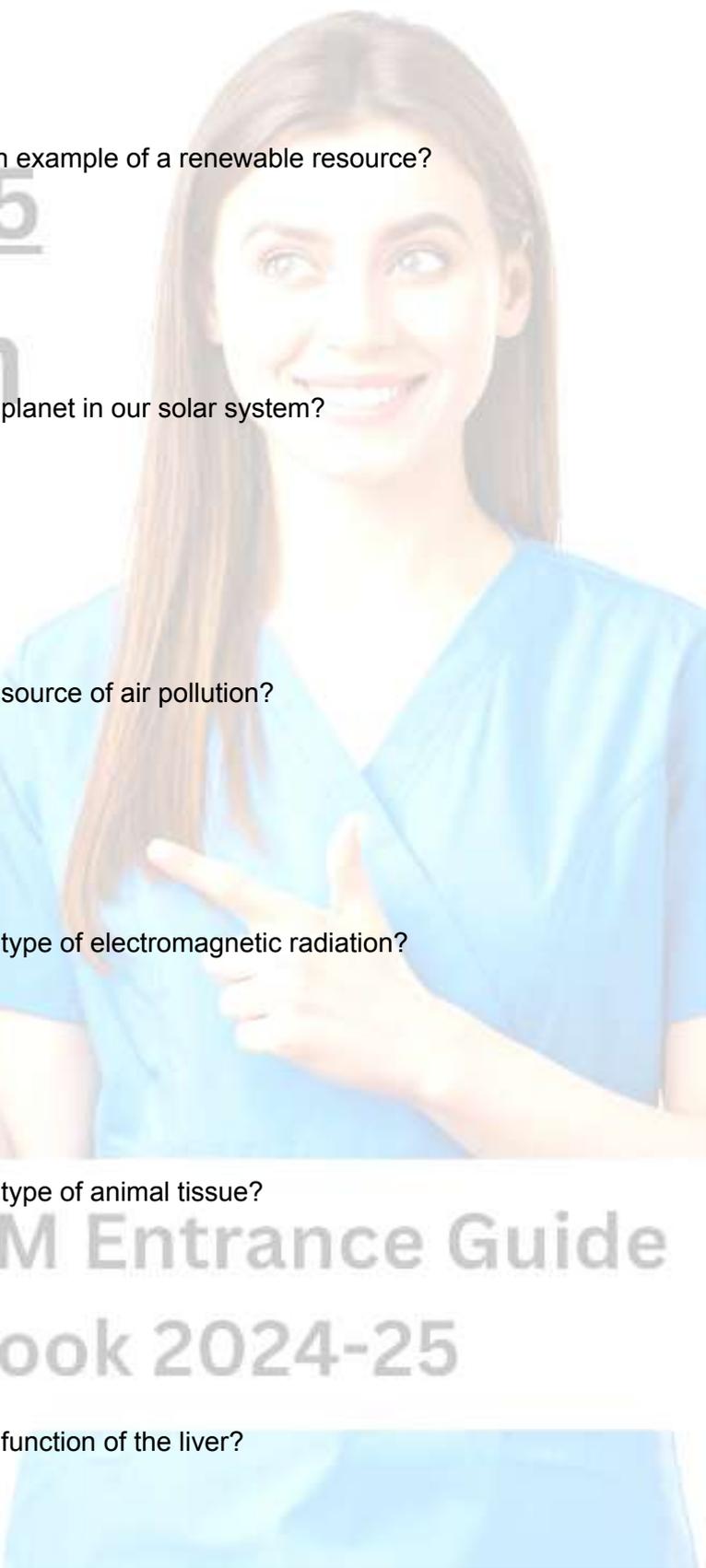
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d) Pumping blood

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

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

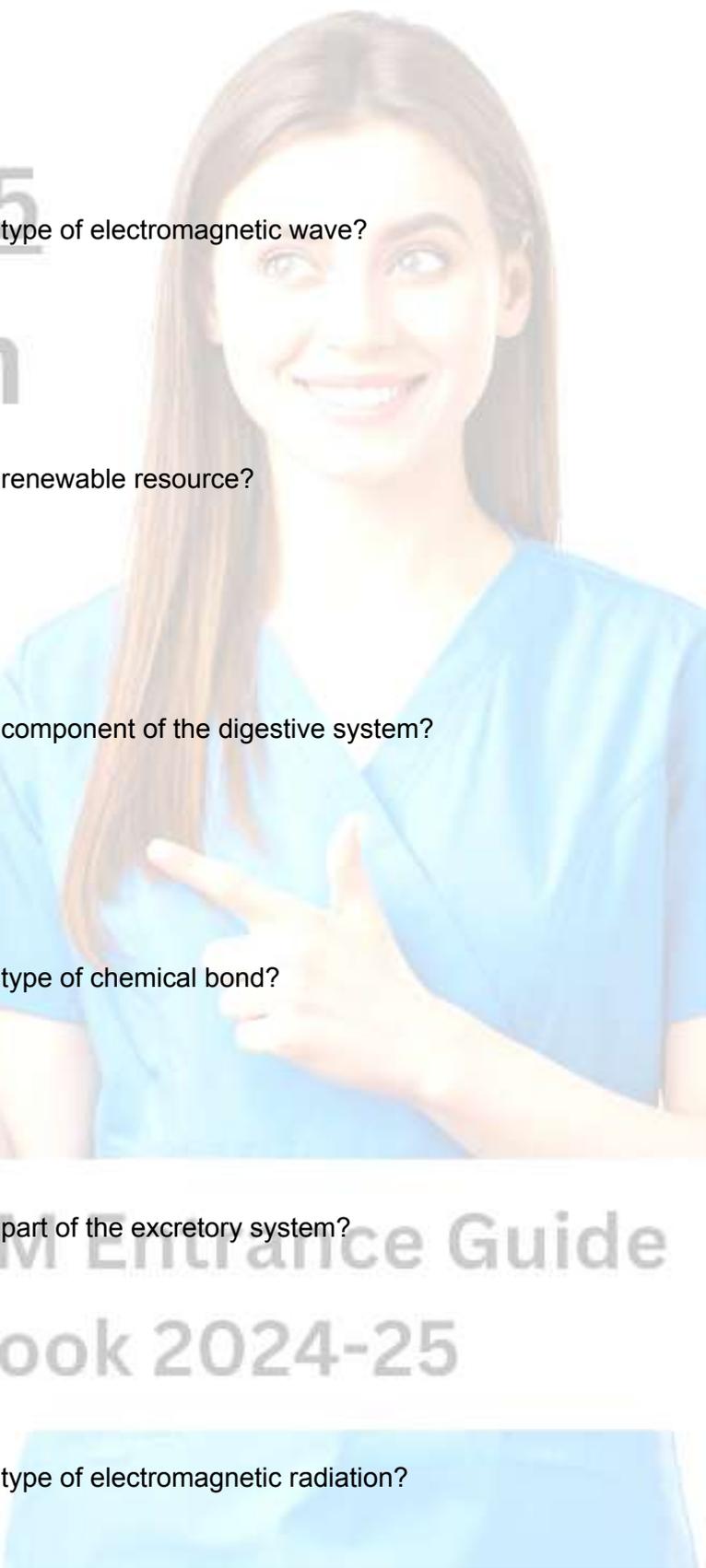
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- c) Ultraviolet radiation
  - d) Radio waves
- Answer: d) Radio waves

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
- 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

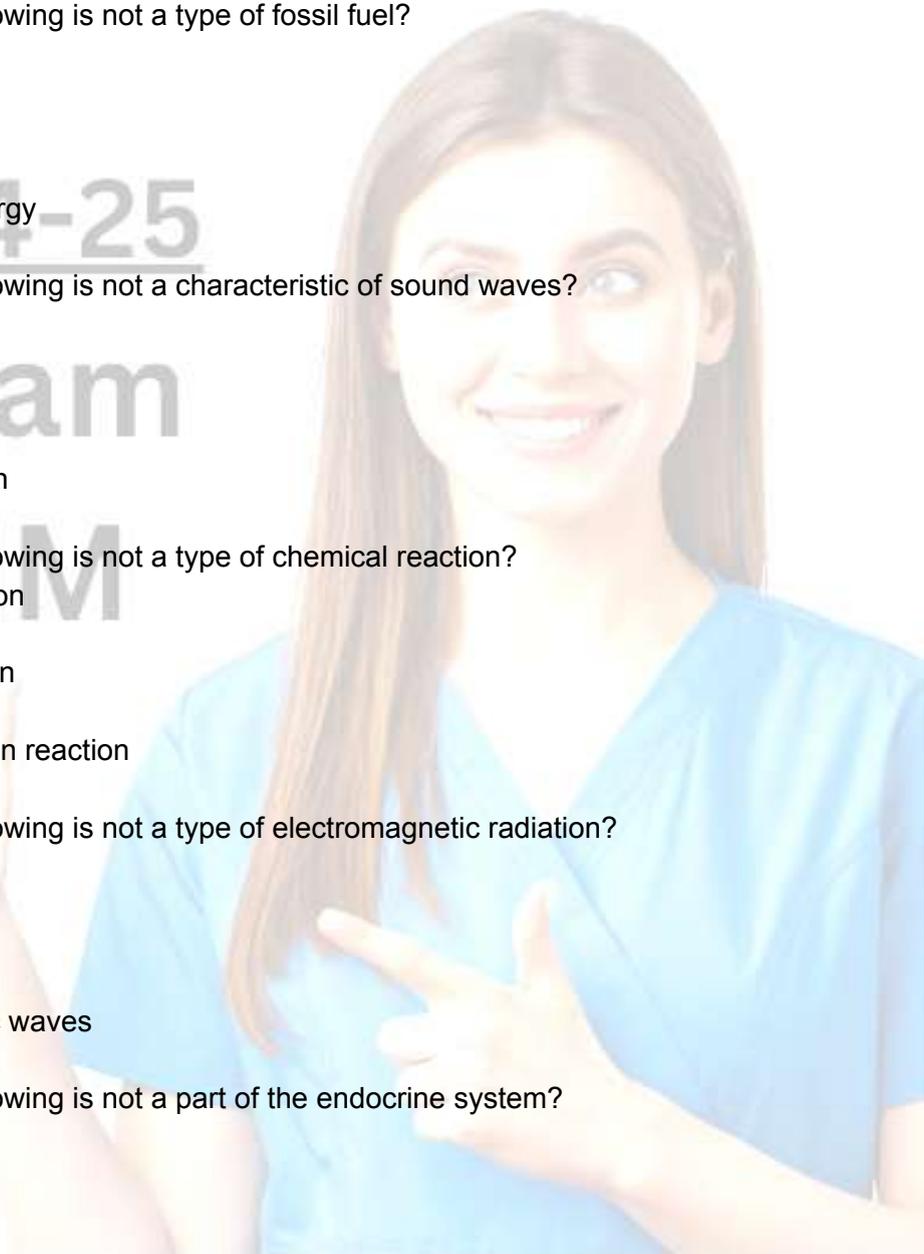
106. Which of the following is not a type of energy transformation?

- 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



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- 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?

- 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?

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- 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

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

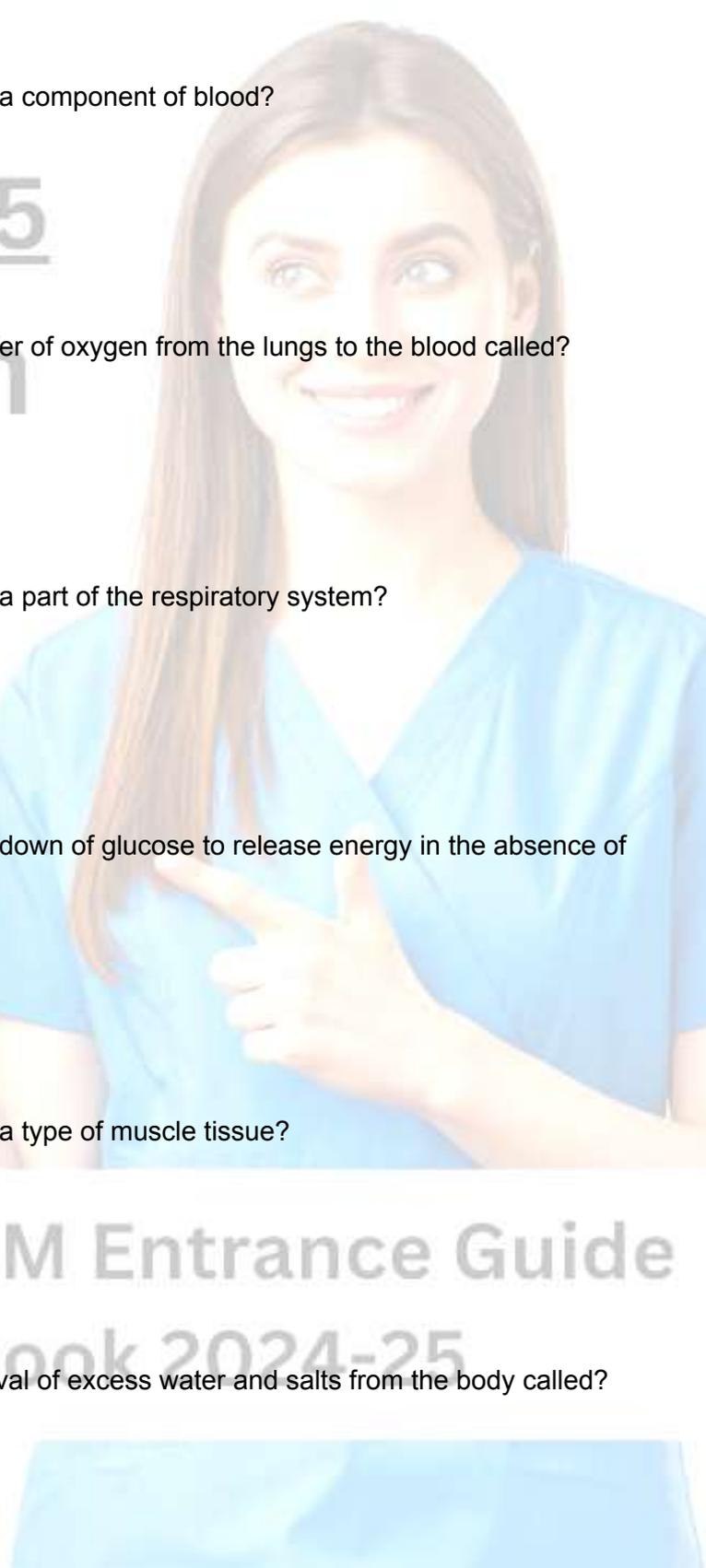
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121. Which of the following is not a part of the human circulatory system?

- 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

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

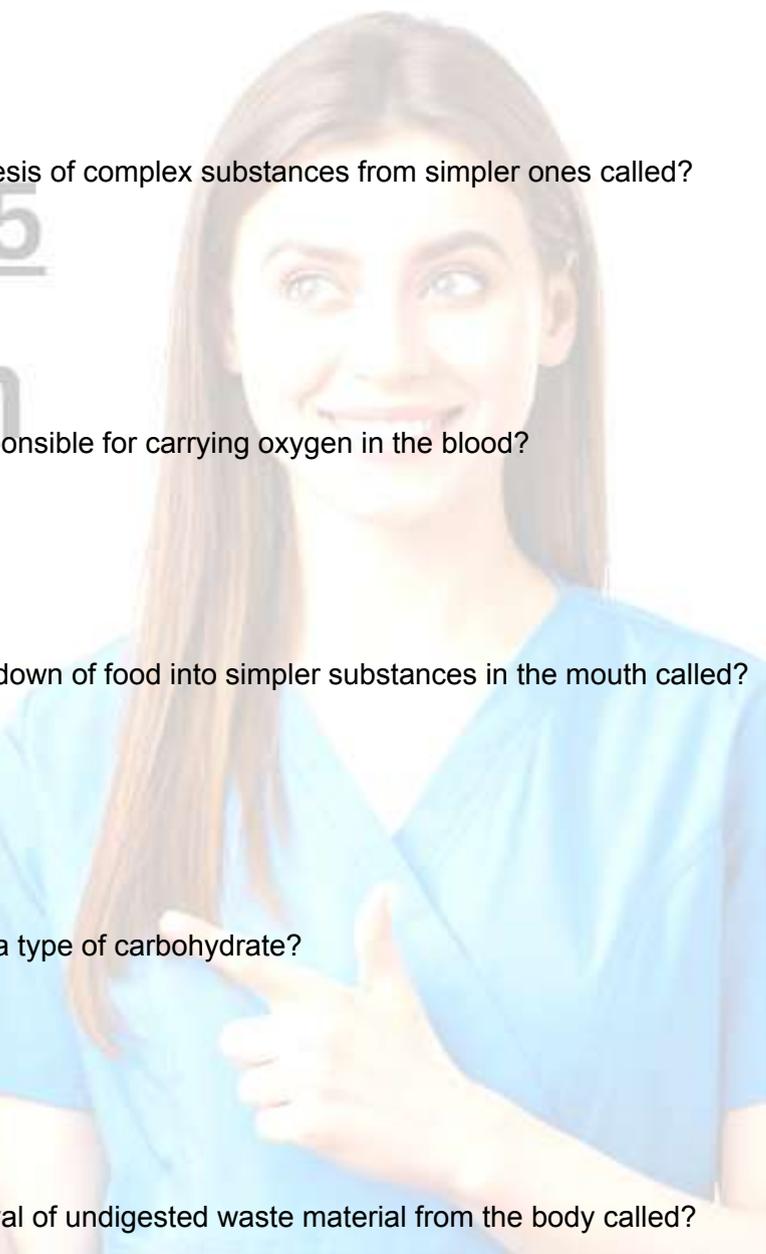
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128. Which of the following is not a part of the human digestive system?

- 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
- 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

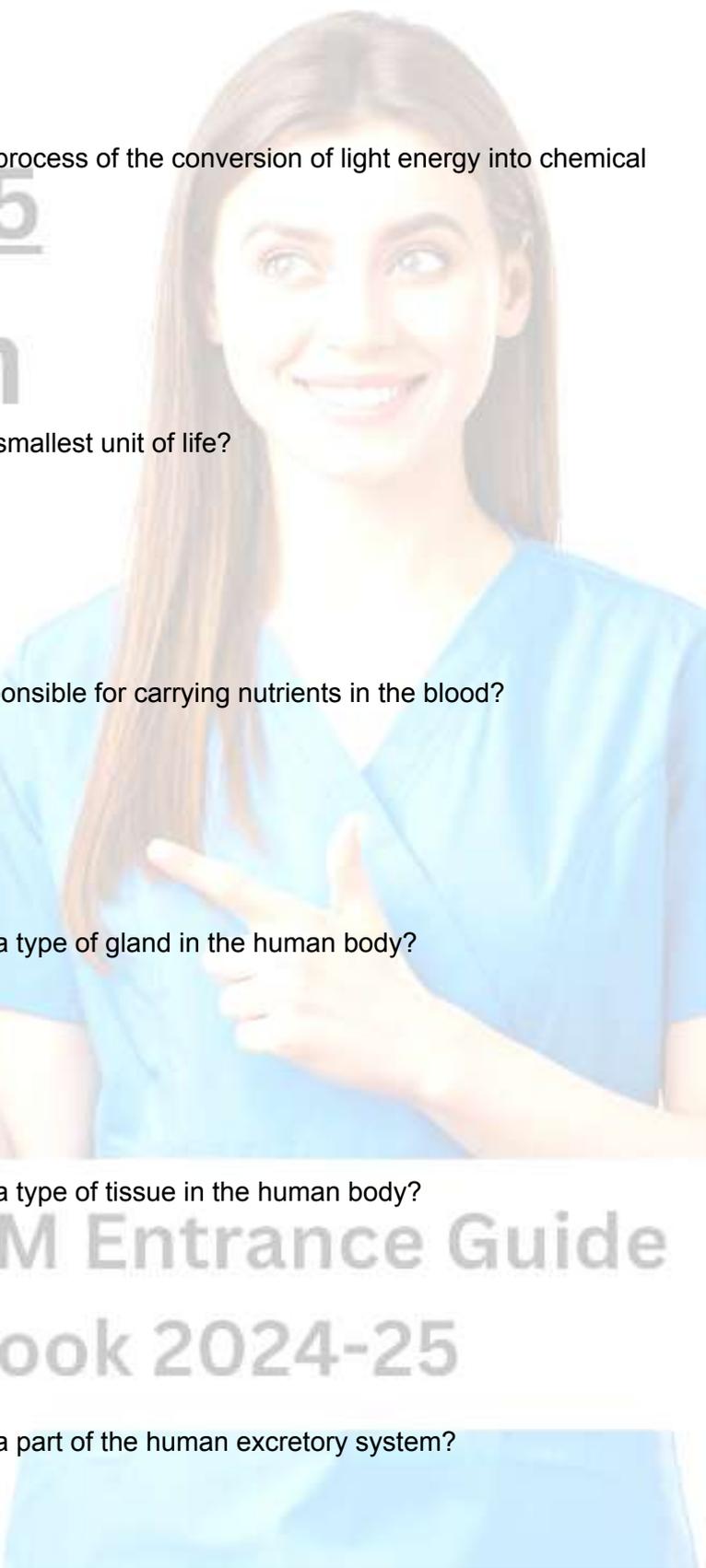
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d) Urethra  
Answer: c) Liver

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
- 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?

- 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?

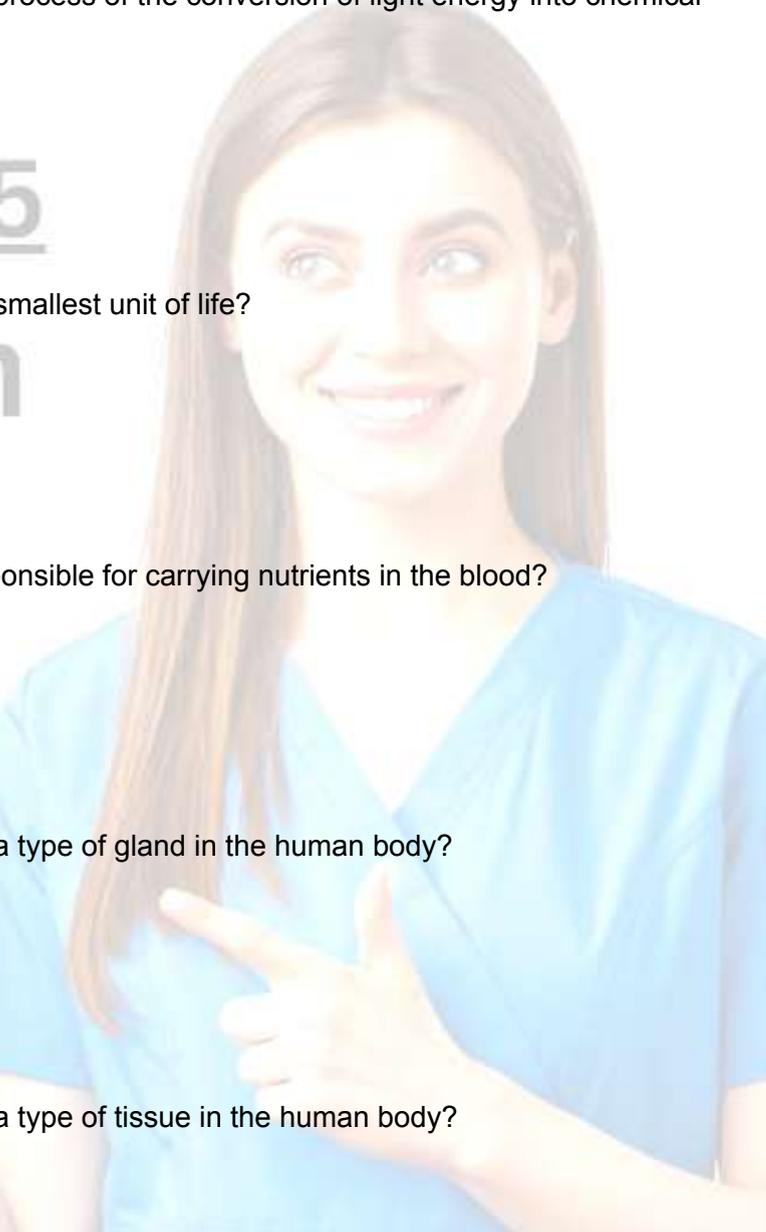
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- a) Hinge joint
- b) Ball and socket joint
- c) Pivot joint
- d) Smooth joint

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

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

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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

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

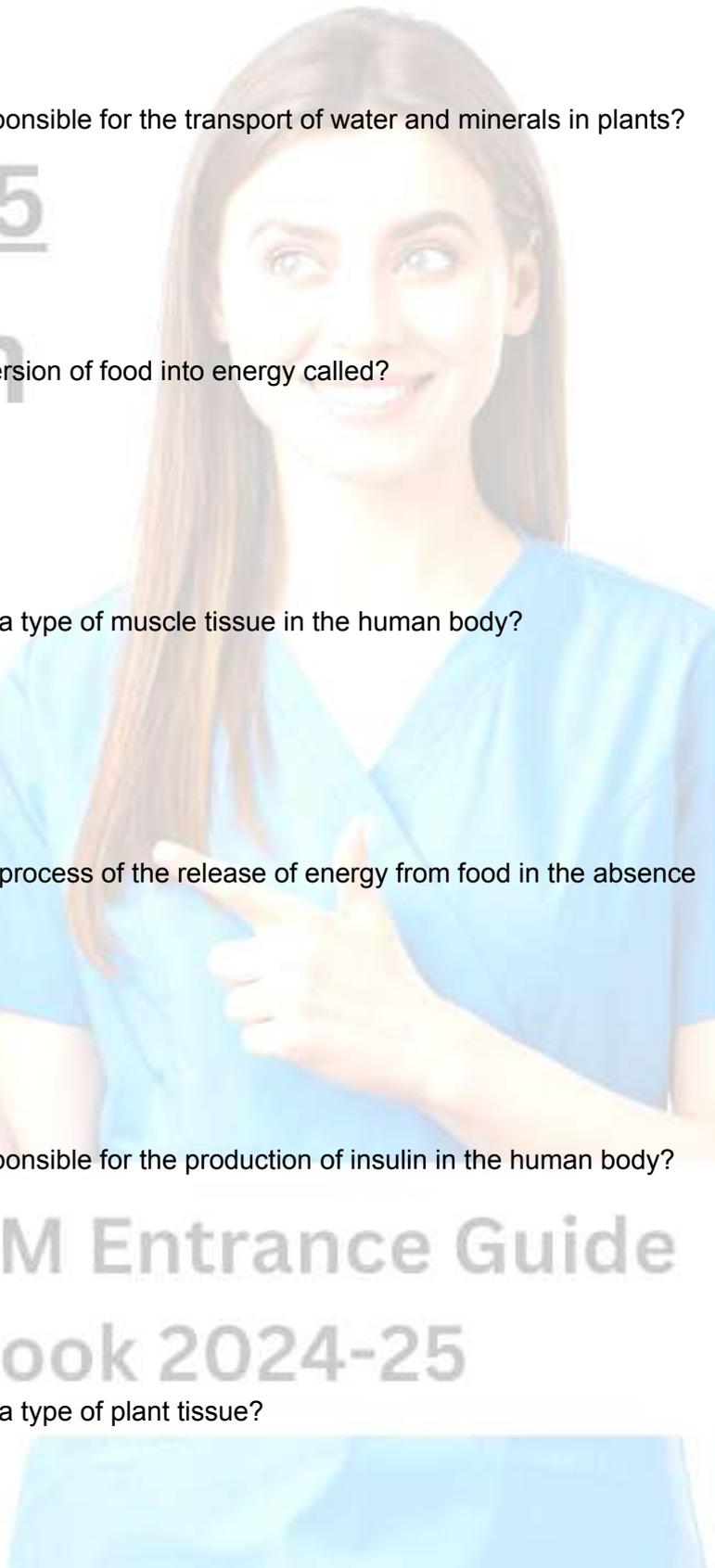
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Answer: d) Contractile tissue

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
- 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

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- 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?

- 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<sub>3</sub>
- c) MgSO<sub>4</sub>
- d) NH<sub>4</sub>NO<sub>3</sub>

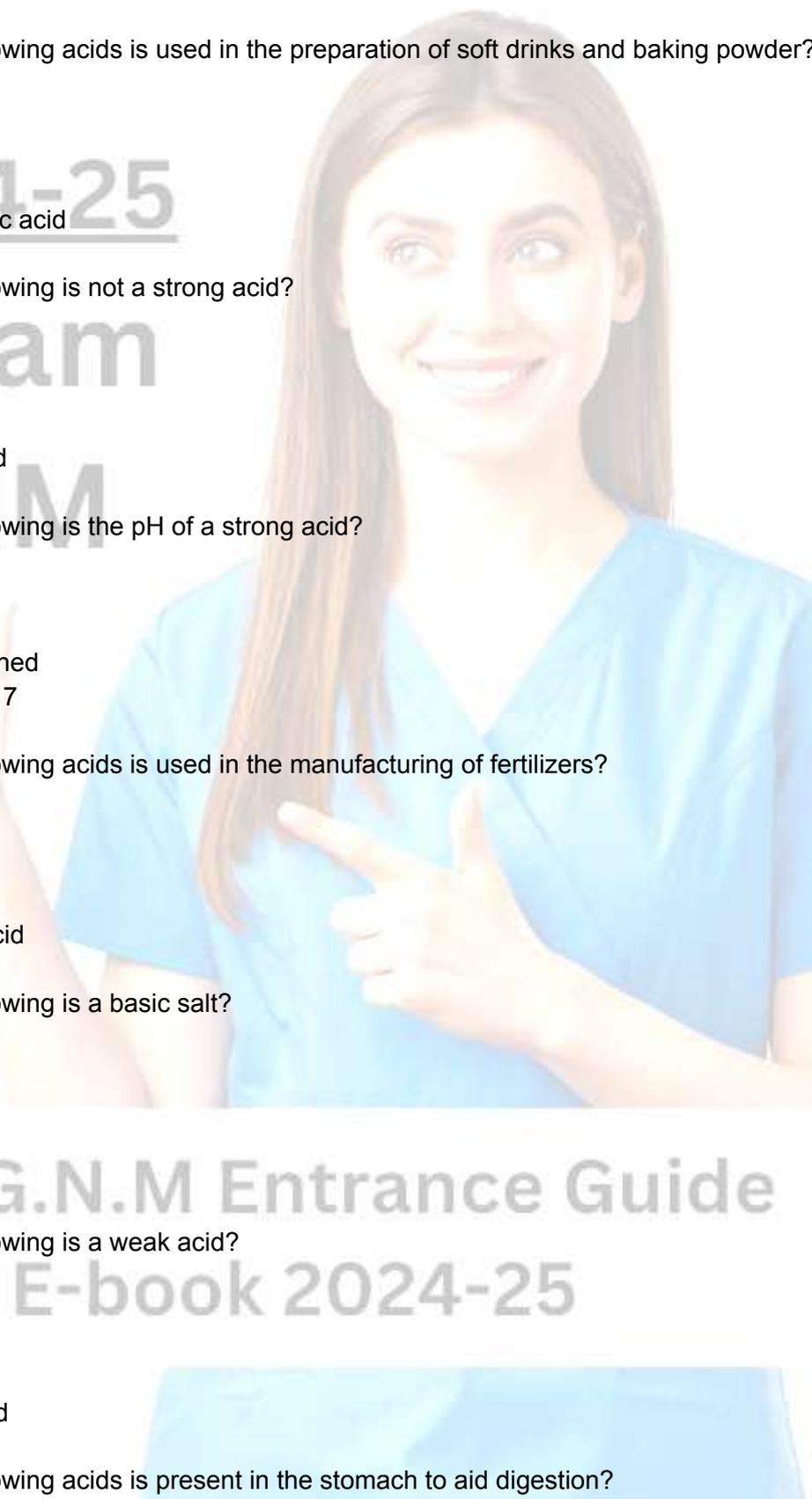
Answer: b) CaCO<sub>3</sub>

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

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?

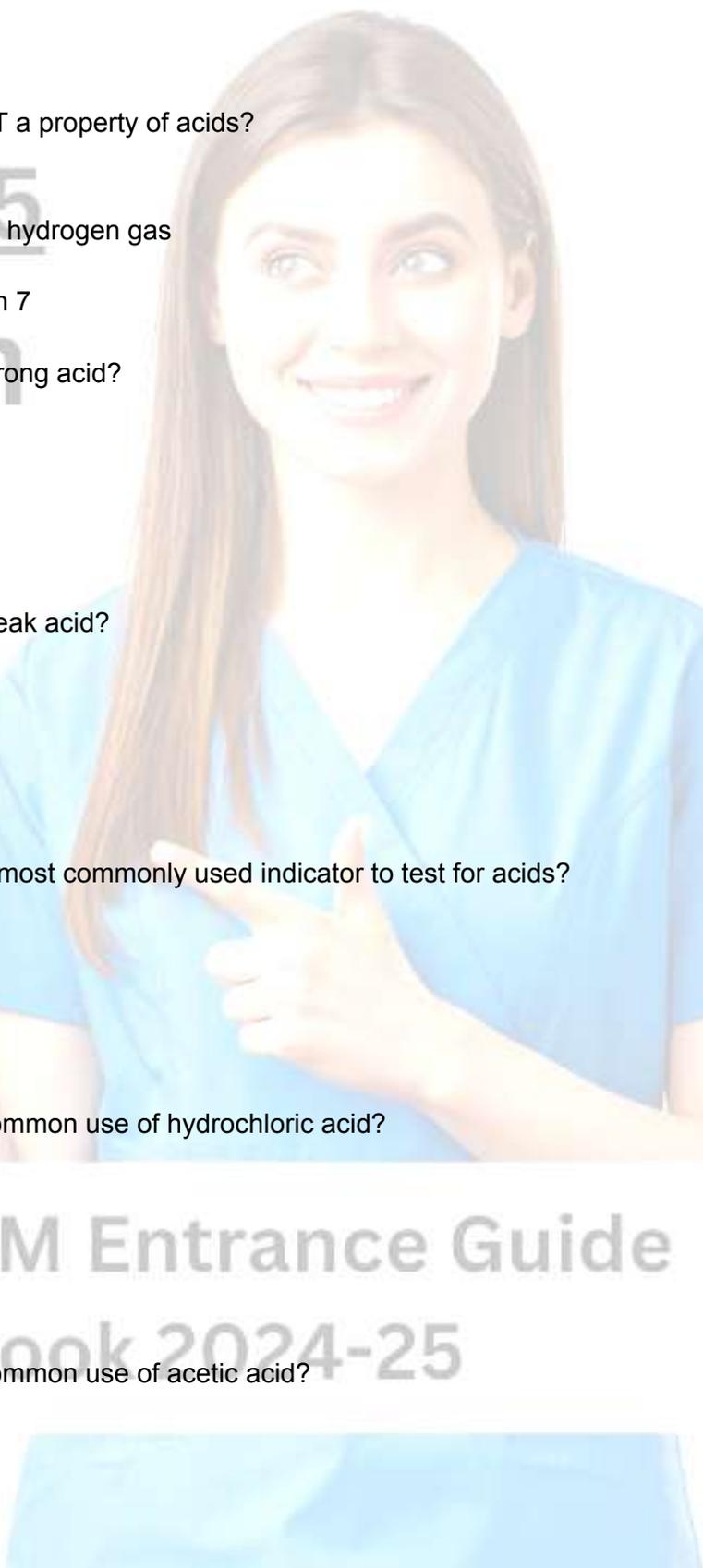
- A) Cleaning glass
- B) Making soap
- C) Baking bread
- D) Neutralizing bases

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

Answer: A) 0-7

188. Which of the following is the chemical formula of hydrochloric acid?

- A) HCl
- B) HNO<sub>3</sub>
- C) H<sub>2</sub>SO<sub>4</sub>
- D) H<sub>3</sub>PO<sub>4</sub>

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) HNO<sub>3</sub>
- C) H<sub>2</sub>SO<sub>4</sub>
- D) H<sub>3</sub>PO<sub>4</sub>

Answer: C) H<sub>2</sub>SO<sub>4</sub>

192. Which of the following is a common use of hydrofluoric acid?

- A) Making soap
- B) Cleaning glass
- C) Making vinegar
- D) Neutralizing bases

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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
- 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)  $HNO_3$
- C)  $CH_3COOH$
- D)  $H_2SO_4$

Answer: C)  $CH_3COOH$

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

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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

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?

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- 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

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) HNO<sub>3</sub>
  - C) H<sub>2</sub>SO<sub>4</sub>
  - D) H<sub>2</sub>CO<sub>3</sub>
- Answer: D) H<sub>2</sub>CO<sub>3</sub>

211. Which of the following is the chemical formula of hydrochloric acid?

- A) HCl
  - B) HNO<sub>3</sub>
  - C) H<sub>2</sub>SO<sub>4</sub>
  - D) H<sub>3</sub>PO<sub>4</sub>
- 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<sup>+</sup> ions
  - B) High concentration of OH<sup>-</sup> 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

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

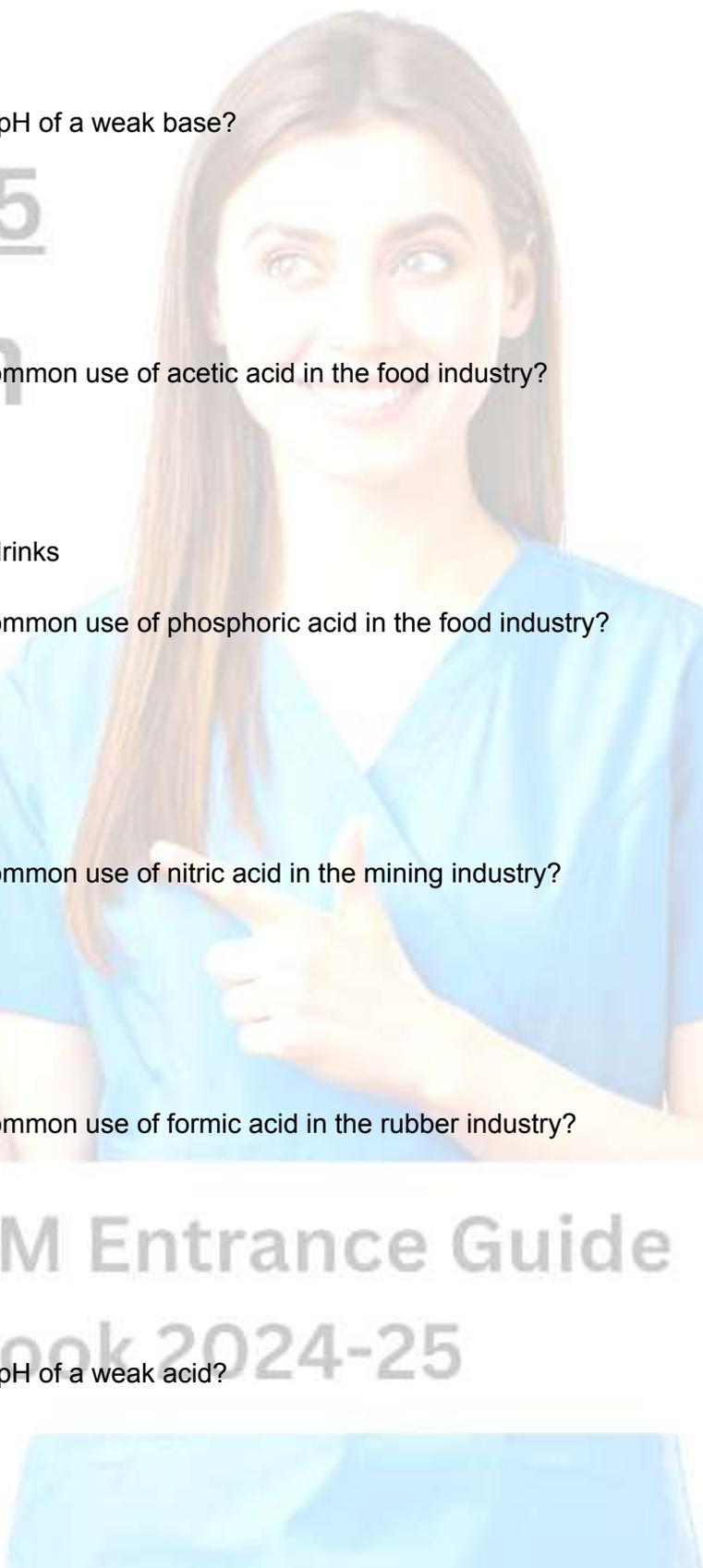
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221. Which of the following is a characteristic of an acid?

- A) High concentration of OH<sup>-</sup> ions
- B) pH of 7
- C) Low concentration of H<sup>+</sup> ions
- D) None of the above

Answer: C) Low concentration of H<sup>+</sup> ions

223. Which of the following is the chemical formula of sulfuric acid?

- A) HCl
- B) HNO<sub>3</sub>
- C) H<sub>2</sub>SO<sub>4</sub>
- D) H<sub>3</sub>PO<sub>4</sub>

Answer: C) H<sub>2</sub>SO<sub>4</sub>

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

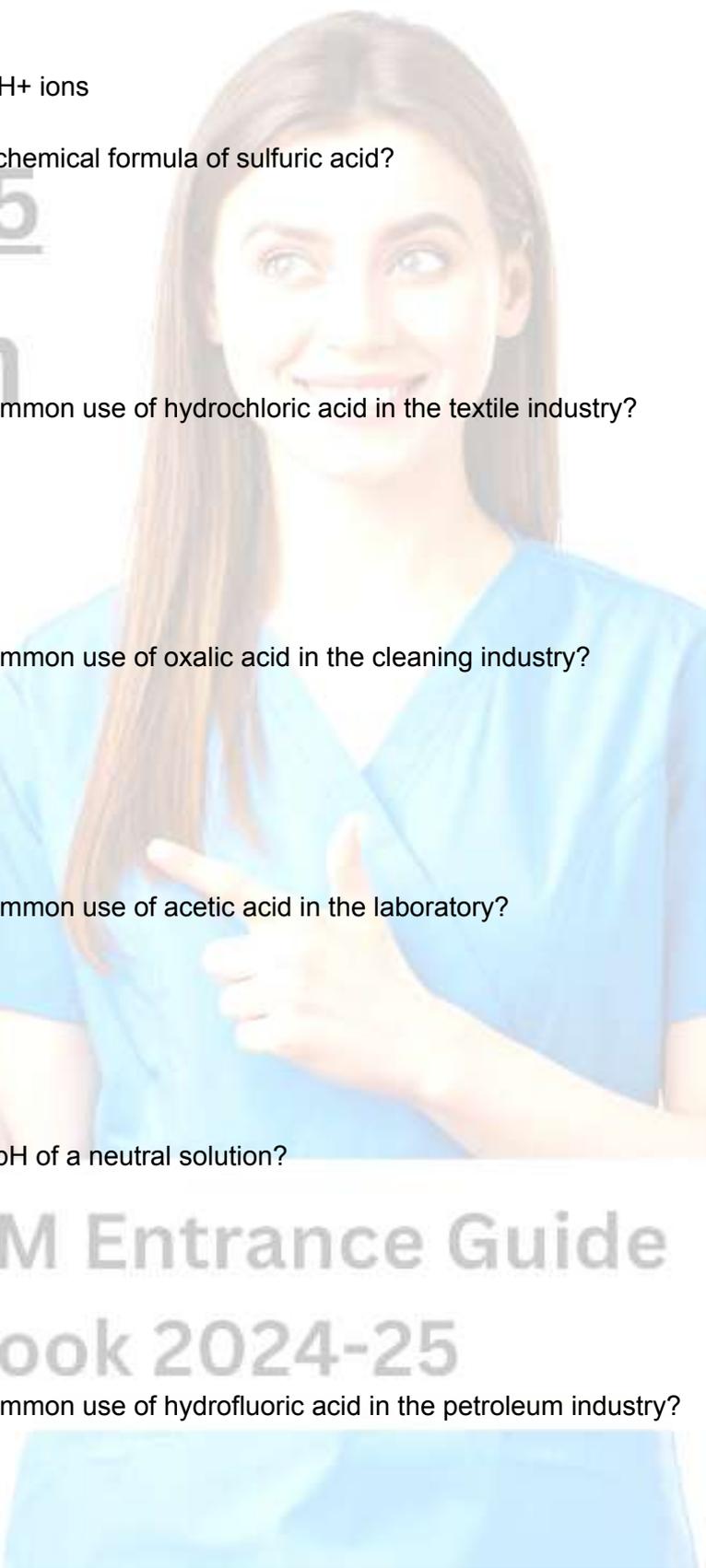
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Answer: C) Dissolving minerals

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
- 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<sub>3</sub>
- C) H<sub>2</sub>SO<sub>4</sub>
- D) H<sub>3</sub>PO<sub>4</sub>

Answer: B) HNO<sub>3</sub>

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

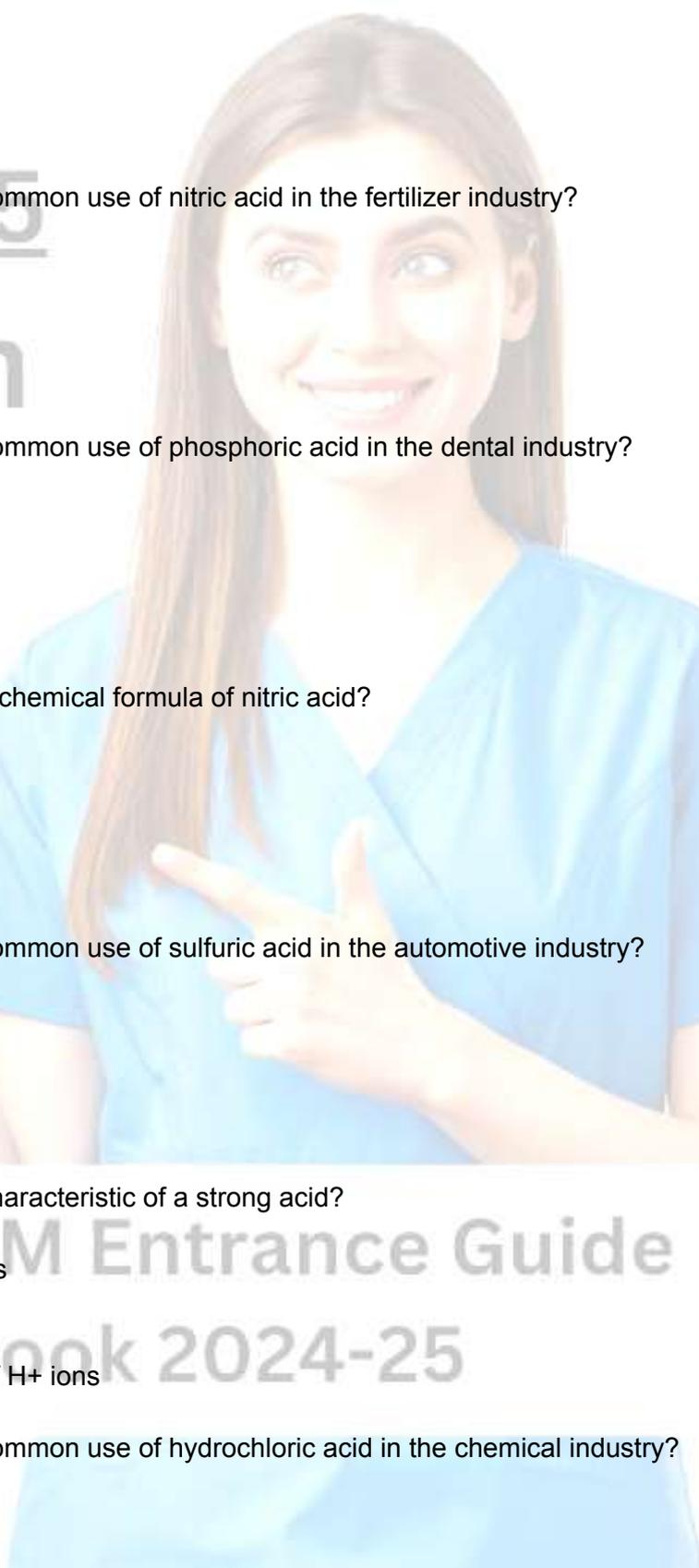
234. Which of the following is a characteristic of a strong acid?

- A) Low concentration of H<sup>+</sup> ions
- B) High concentration of OH<sup>-</sup> ions
- C) pH of 7
- D) High concentration of H<sup>+</sup> ions

Answer: D) High concentration of H<sup>+</sup> 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
  - 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) HNO<sub>3</sub>

C)  $\text{H}_2\text{SO}_4$

D)  $\text{H}_3\text{PO}_4$

Answer: A)  $\text{HCl}$

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  $\text{H}^+$  ions

B) High concentration of  $\text{OH}^-$  ions

C) pH of 7

D) High concentration of  $\text{H}^+$  ions

Answer: A) Low concentration of  $\text{H}^+$  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

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

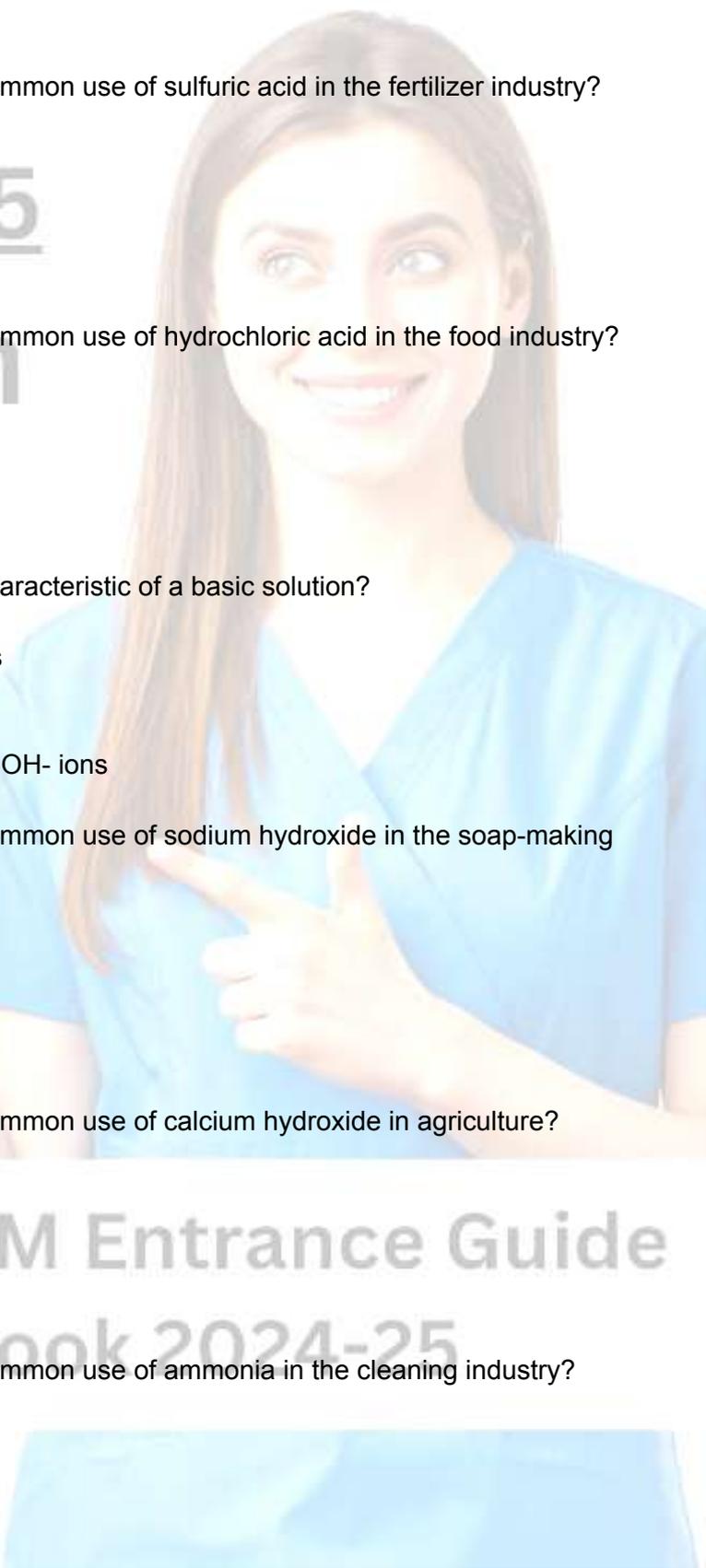
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256. Which of the following is a common use of sodium carbonate in the glass-making industry?

- 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
- 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) CaCO<sub>3</sub>
- D) H<sub>2</sub>SO<sub>4</sub>

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) CaCl<sub>2</sub>
- B) NaCl
- C) KCl
- D) MgCl<sub>2</sub>

Answer: A) CaCl<sub>2</sub>

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<sup>+</sup> ions
- B) High concentration of OH<sup>-</sup> ions

- C) pH of 7
  - D) Low concentration of H<sup>+</sup> ions
- Answer: A) High concentration of H<sup>+</sup> ions

263. Which of the following is the chemical formula for baking soda (sodium bicarbonate)?

- A) NaOH
- B) NaCl
- C) NaHCO<sub>3</sub>
- D) H<sub>2</sub>SO<sub>4</sub>

Answer: C) NaHCO<sub>3</sub>

264. 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) 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<sup>+</sup> ions
- B) High concentration of OH<sup>-</sup> ions
- C) pH of 7
- D) Low concentration of H<sup>+</sup> ions

Answer: C) pH of 7

267. Which of the following is the chemical formula for magnesium hydroxide?

- A) Mg(OH)<sub>2</sub>
- B) NaCl
- C) KCl
- D) CaCO<sub>3</sub>

Answer: A) Mg(OH)<sub>2</sub>

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<sub>3</sub>
  - D) H<sub>2</sub>SO<sub>4</sub>
- 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

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<sup>+</sup> ions
- B) High concentration of OH<sup>-</sup> ions
- C) pH of 7
- D) Low concentration of OH<sup>-</sup> ions

Answer: B) High concentration of OH<sup>-</sup> ions

273. Which of the following is the chemical formula for quicklime?

- A) Ca(OH)<sub>2</sub>
- B) NaOH
- C) CaO
- D) Mg(OH)<sub>2</sub>

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)  $\text{Ca(OH)}_2$
- B)  $\text{NaOH}$
- C)  $\text{CaO}$
- D)  $\text{Mg(OH)}_2$

Answer: A)  $\text{Ca(OH)}_2$

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
- 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)  $\text{NaOH}$
- B)  $\text{NaCl}$
- C)  $\text{HCl}$
- D)  $\text{H}_2\text{SO}_4$

Answer: C)  $\text{HCl}$

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

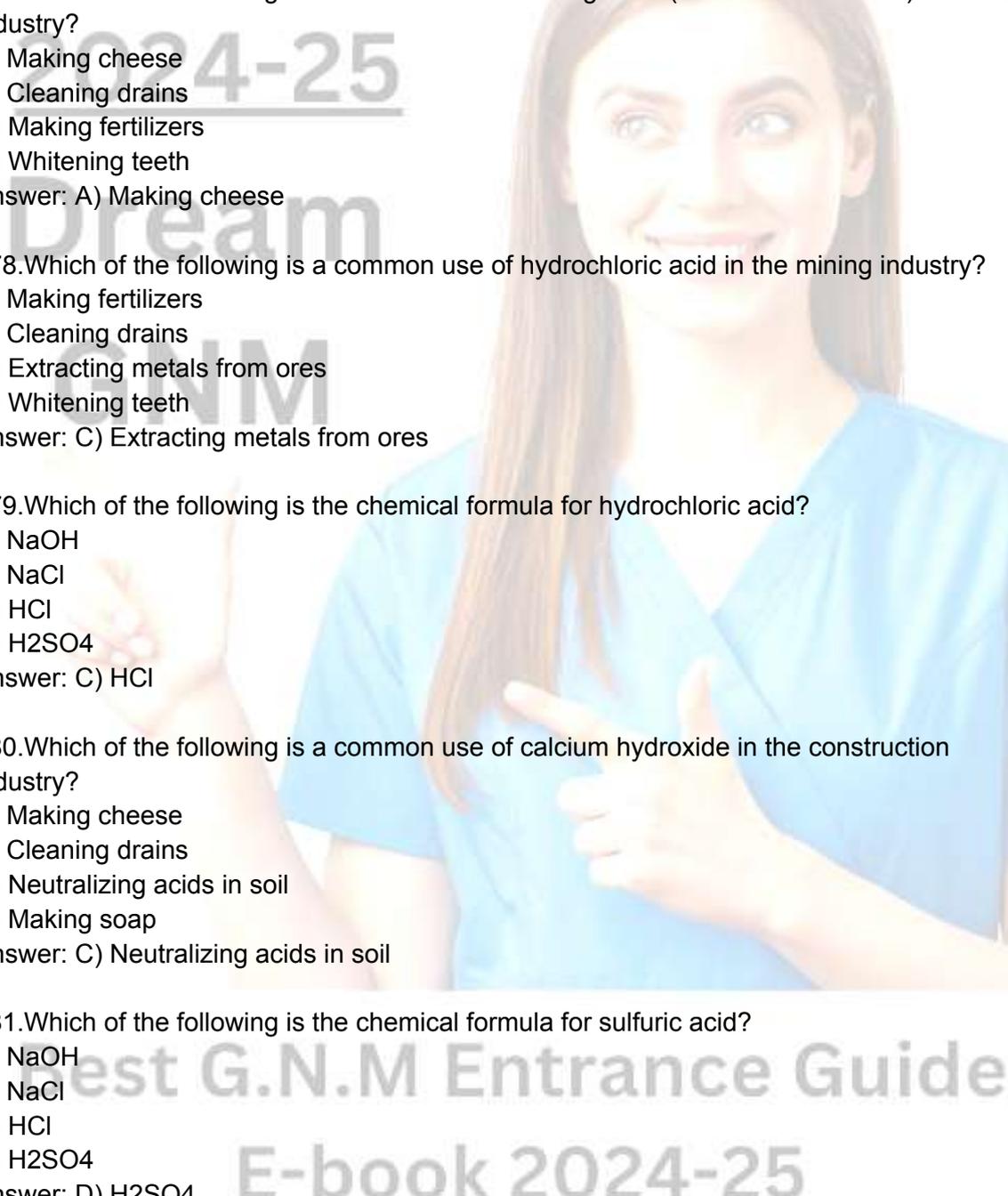
281. Which of the following is the chemical formula for sulfuric acid?

- A)  $\text{NaOH}$
- B)  $\text{NaCl}$
- C)  $\text{HCl}$
- D)  $\text{H}_2\text{SO}_4$

Answer: D)  $\text{H}_2\text{SO}_4$

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) Na<sub>2</sub>CO<sub>3</sub>

D) NaHCO<sub>3</sub>

Answer: C) Na<sub>2</sub>CO<sub>3</sub>

284. Which of the following is a characteristic of a salt?

A) Sour taste

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) CaCO<sub>3</sub>

C) H<sub>2</sub>SO<sub>4</sub>

D) MgCl<sub>2</sub>

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) CH<sub>3</sub>COOH

B) NaOH

C) HCl

D) H<sub>2</sub>SO<sub>4</sub>

Answer: A) CH<sub>3</sub>COOH

289. Which of the following is a characteristic of an acidic solution?

A) High concentration of OH<sup>-</sup> ions

B) Low concentration of H<sup>+</sup> ions

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- C) pH of 7
  - D) High concentration of H<sup>+</sup> ions
- Answer: D) High concentration of H<sup>+</sup> ions

290. Which of the following is the chemical formula for baking powder?

- A) NaOH
- B) NaCl
- C) Na<sub>2</sub>CO<sub>3</sub>
- D) NaHCO<sub>3</sub>

Answer: D) NaHCO<sub>3</sub>

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<sub>3</sub>
- C) Ca(OH)<sub>2</sub>
- D) CaOCl<sub>2</sub>

Answer: D) CaOCl<sub>2</sub>

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<sub>3</sub>
- C) Ca(OH)<sub>2</sub>
- D) CaO

Answer: D) CaO

296. Which of the following is a common use of sulfuric acid in the chemical industry?

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- 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

Answer: C) Making glass

298. Which of the following is the chemical formula for baking soda?

- A) NaOH
- B) NaCl
- C) Na<sub>2</sub>CO<sub>3</sub>
- D) NaHCO<sub>3</sub>

Answer: D) NaHCO<sub>3</sub>

299. Which of the following is a characteristic of a neutral solution?

- A) High concentration of OH<sup>-</sup> ions
- B) Low concentration of H<sup>+</sup> ions
- C) pH of 7
- D) High concentration of H<sup>+</sup> ions

Answer: C) pH of 7

300. Which of the following is the chemical formula for gypsum?

- A) Na<sub>2</sub>CO<sub>3</sub>
- B) CaCO<sub>3</sub>
- C) CaSO<sub>4</sub>·2H<sub>2</sub>O
- D) Ca(OH)<sub>2</sub>

Answer: C) CaSO<sub>4</sub>·2H<sub>2</sub>O

301. Which of the following is a common use of aluminum hydroxide in the pharmaceutical industry?

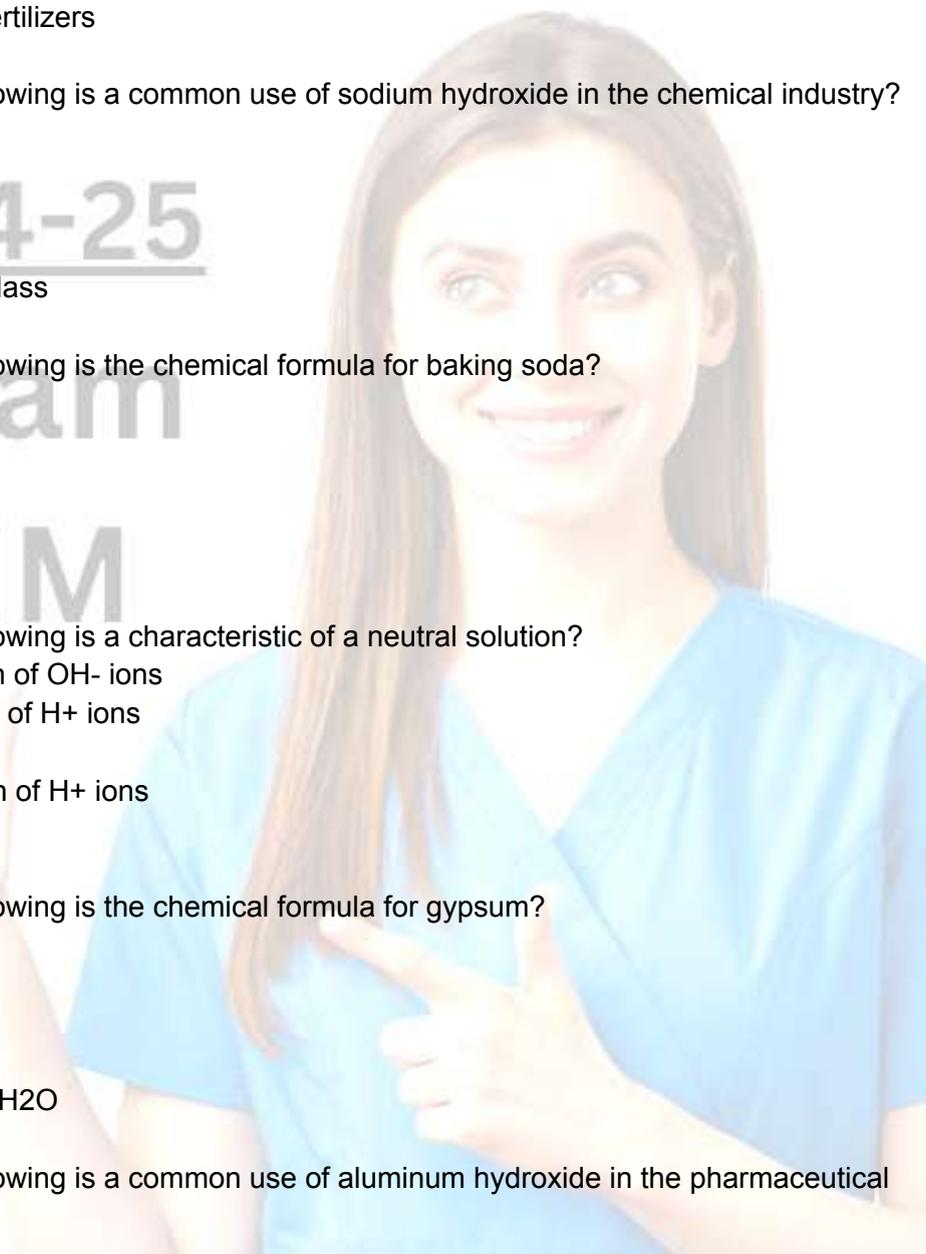
- A) Making fertilizers
- B) Cleaning drains
- C) Neutralizing stomach acid
- D) Making soap

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<sub>3</sub>
- C) Ca(OH)<sub>2</sub>
- D) CaSO<sub>4</sub>

Answer: A) NaCl

304. Which of the following is a characteristic of an acidic solution?

- A) High concentration of OH<sup>-</sup> ions
  - B) Low concentration of H<sup>+</sup> ions
  - C) pH of 7
  - D) High concentration of H<sup>+</sup> ions
- Answer: D) High concentration of H<sup>+</sup> ions

305. Which of the following is the chemical formula for washing soda?

- A) NaOH
- B) NaCl
- C) Na<sub>2</sub>CO<sub>3</sub>
- D) NaHCO<sub>3</sub>

Answer: C) Na<sub>2</sub>CO<sub>3</sub>

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<sub>2</sub>CO<sub>3</sub>
- B) CaCO<sub>3</sub>
- C) CaSO<sub>4</sub>.2H<sub>2</sub>O
- D) Ca(OH)<sub>2</sub>

Answer: C) CaSO<sub>4</sub>.2H<sub>2</sub>O

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<sub>2</sub>CO<sub>3</sub>
- D) NaHCO<sub>3</sub> + tartaric acid

Answer: D) NaHCO<sub>3</sub> + tartaric acid

311. Which of the following is a common use of magnesium hydroxide in the pharmaceutical industry?

- 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) Na<sub>2</sub>CO<sub>3</sub>
- D) NaHCO<sub>3</sub>

Answer: D) NaHCO<sub>3</sub>

316. Which of the following is a common use of sulfuric acid in the chemical industry?

- A) Making fertilizers
- B) Cleaning drains

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- 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

318. Which of the following is the chemical formula for quicklime?

- A)  $\text{CaCO}_3$
- B)  $\text{Ca(OH)}_2$
- C)  $\text{CaSO}_4$
- D)  $\text{CaO}$

Answer: D)  $\text{CaO}$

319. Which of the following is a characteristic of an alkaline solution?

- A) High concentration of  $\text{OH}^-$  ions
- B) Low concentration of  $\text{H}^+$  ions
- C) pH of 7
- D) High concentration of  $\text{H}^+$  ions

Answer: A) High concentration of  $\text{OH}^-$  ions

320. Which of the following is the chemical formula for bleaching powder?

- A)  $\text{NaOH}$
- B)  $\text{NaCl}$
- C)  $\text{CaOCl}_2$
- D)  $\text{CaCO}_3$

Answer: C)  $\text{CaOCl}_2$

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

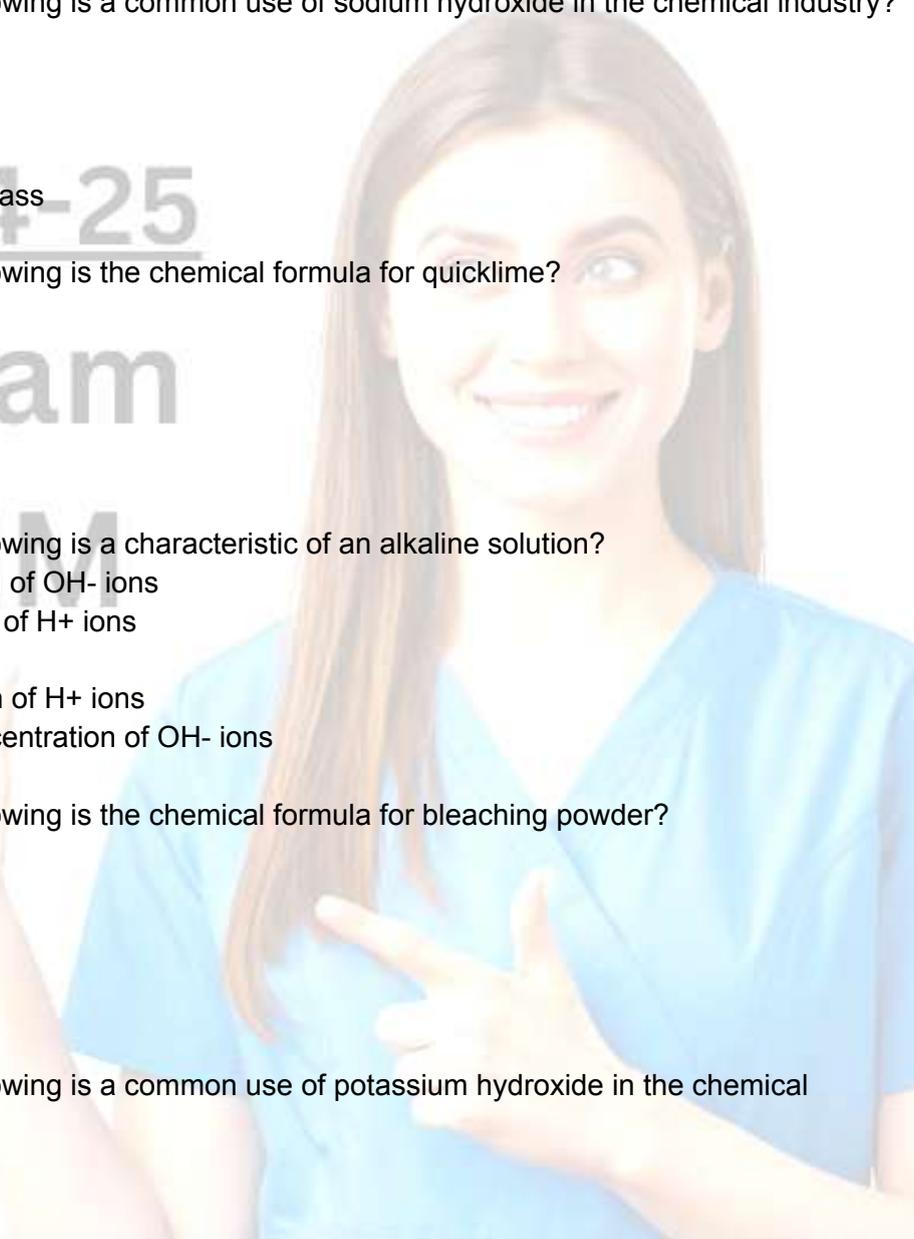
Answer: D) Making soap

322. Which of the following is a characteristic of an acidic solution?

- A) High concentration of  $\text{OH}^-$  ions
- B) Low concentration of  $\text{H}^+$  ions
- C) pH of 7
- D) High concentration of  $\text{H}^+$  ions

Answer: D) High concentration of  $\text{H}^+$  ions

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



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- A) NaOH
  - B) NaCl
  - C) Na<sub>2</sub>CO<sub>3</sub>
  - D) NaHCO<sub>3</sub>
- Answer: B) NaCl

324. Which of the following is a characteristic of a basic solution?

- A) Low concentration of OH<sup>-</sup> ions
  - B) High concentration of H<sup>+</sup> ions
  - C) pH less than 7
  - D) High concentration of OH<sup>-</sup> ions
- Answer: D) High concentration of OH<sup>-</sup> ions

325. Which of the following is the chemical formula for washing soda?

- A) NaOH
  - B) NaCl
  - C) Na<sub>2</sub>CO<sub>3</sub>
  - D) NaHCO<sub>3</sub>
- Answer: C) Na<sub>2</sub>CO<sub>3</sub>

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) CaCO<sub>3</sub>
  - B) Ca(OH)<sub>2</sub>
  - C) CaSO<sub>4</sub>
  - D) CaO
- Answer: B) Ca(OH)<sub>2</sub>

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)  $\text{CaSO}_4$
- B)  $\text{CaCO}_3$
- C)  $\text{Ca(OH)}_2$
- 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

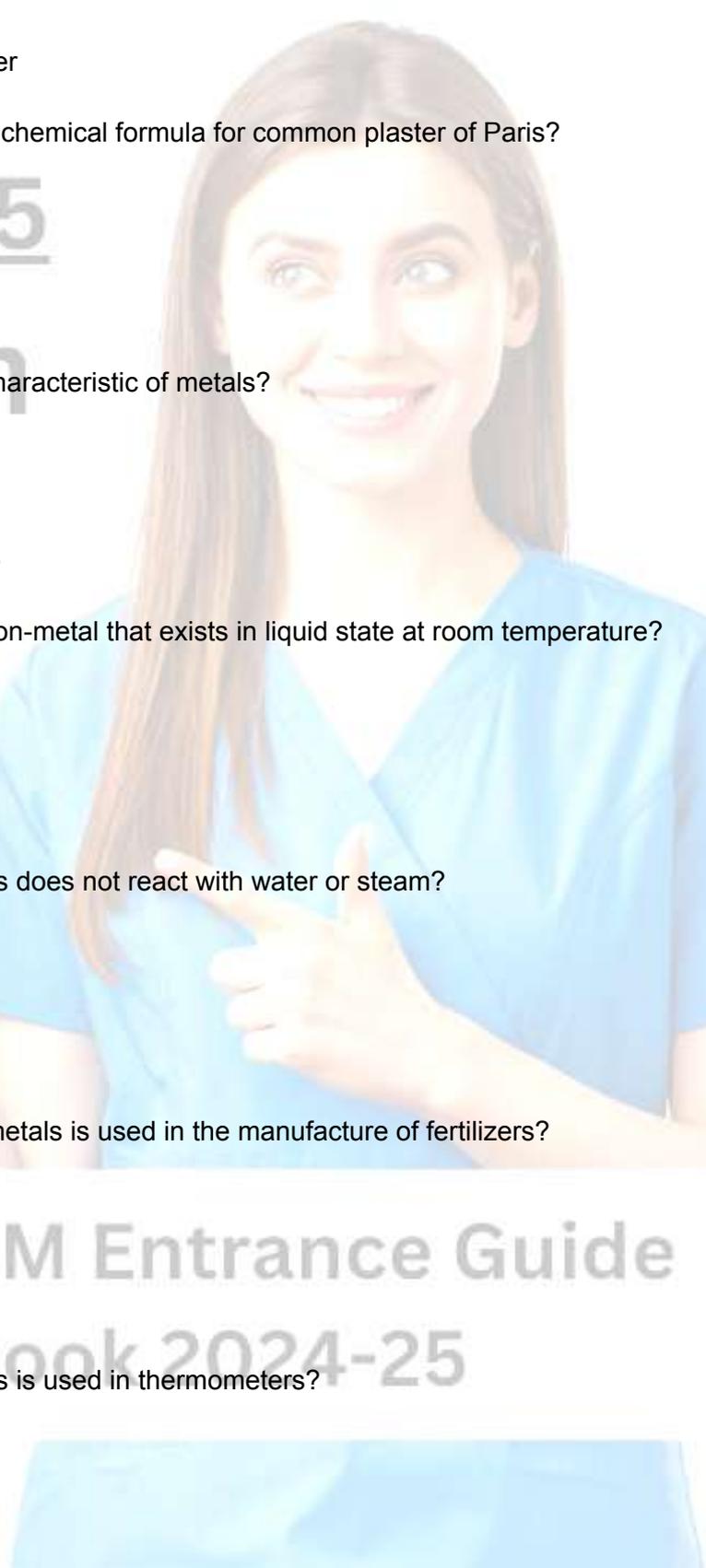
339. Which of the following metals is used in thermometers?

- A) Mercury
- B) Copper
- C) Zinc
- D) Iron

Answer: A) Mercury

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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
- 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

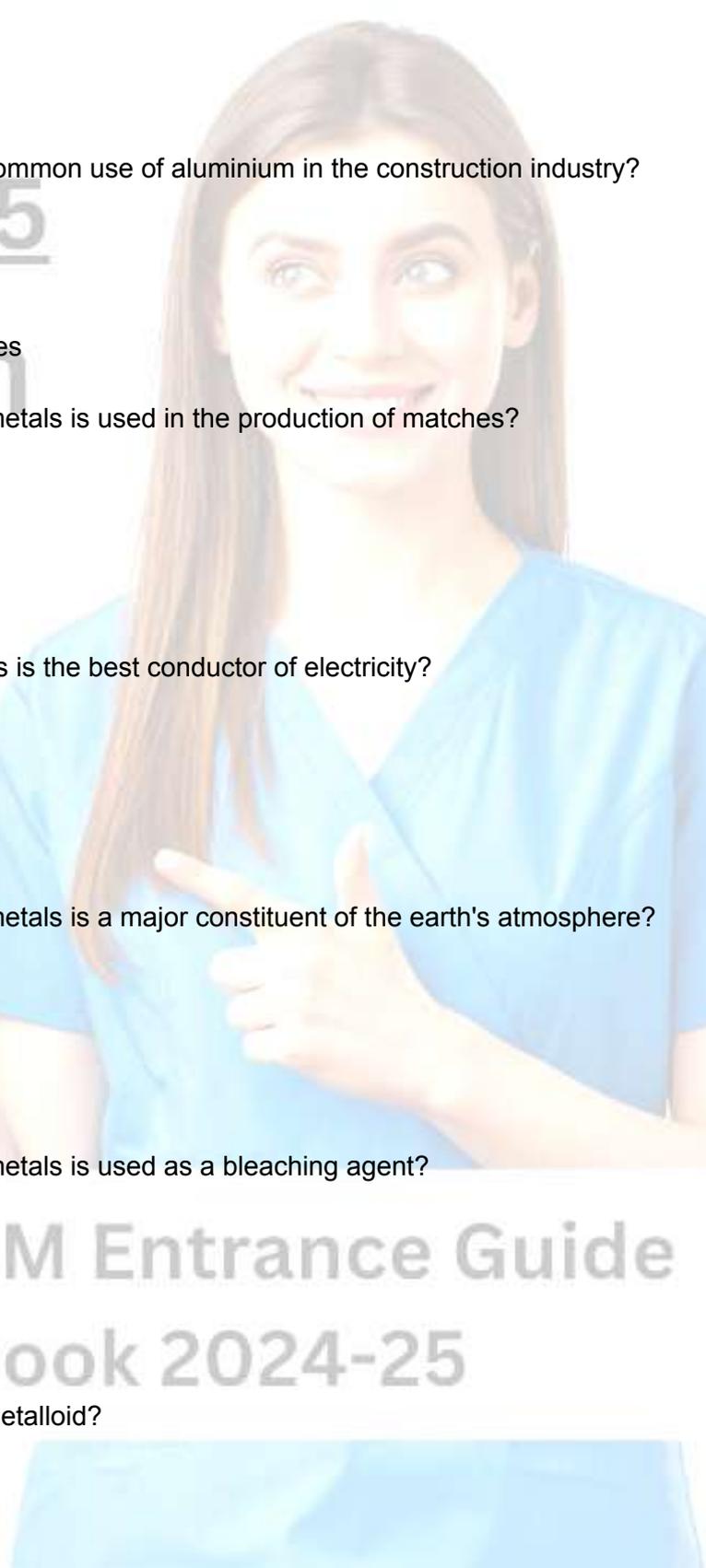
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Answer: C) Silicon

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
- 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

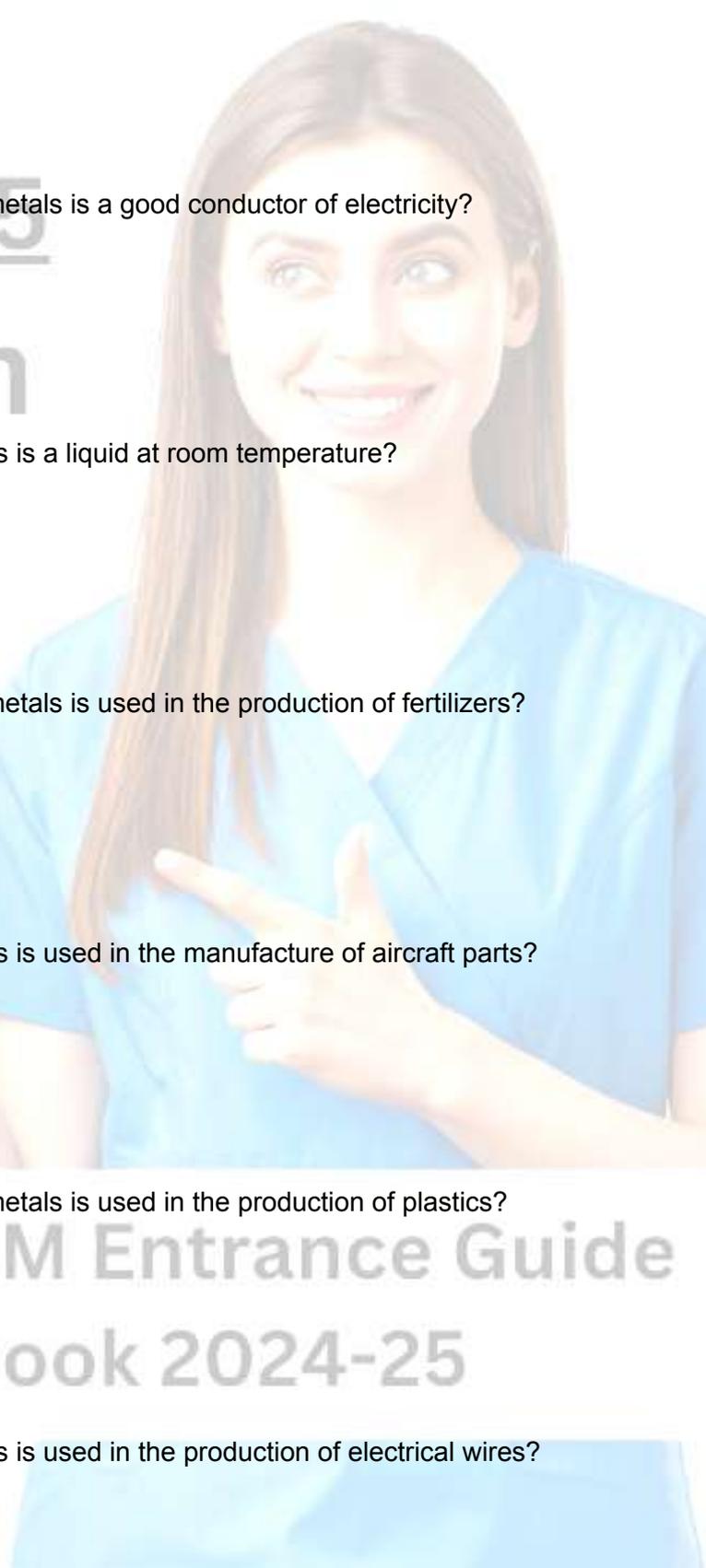
Answer: C) Carbon

353. Which of the following metals is used in the production of electrical wires?

- A) Copper
- B) Zinc
- C) Iron

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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?

- 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

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- 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

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

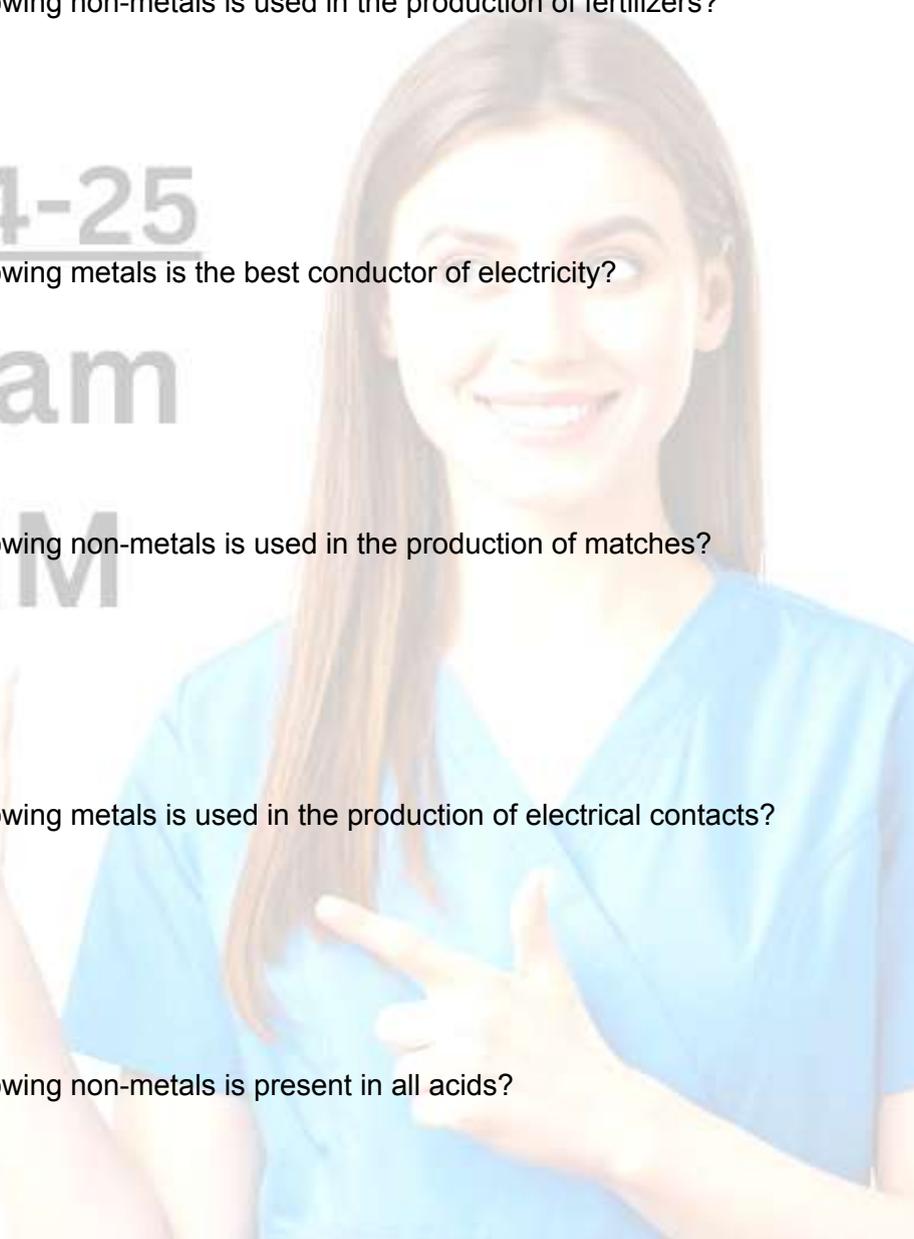
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- B) Nitrogen
  - C) Carbon dioxide
  - D) Chlorine
- Answer: B) Nitrogen

368. Which of the following metals is the most reactive?

- A) Iron
- B) Copper
- C) Gold
- D) Sodium

Answer: D) Sodium

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?

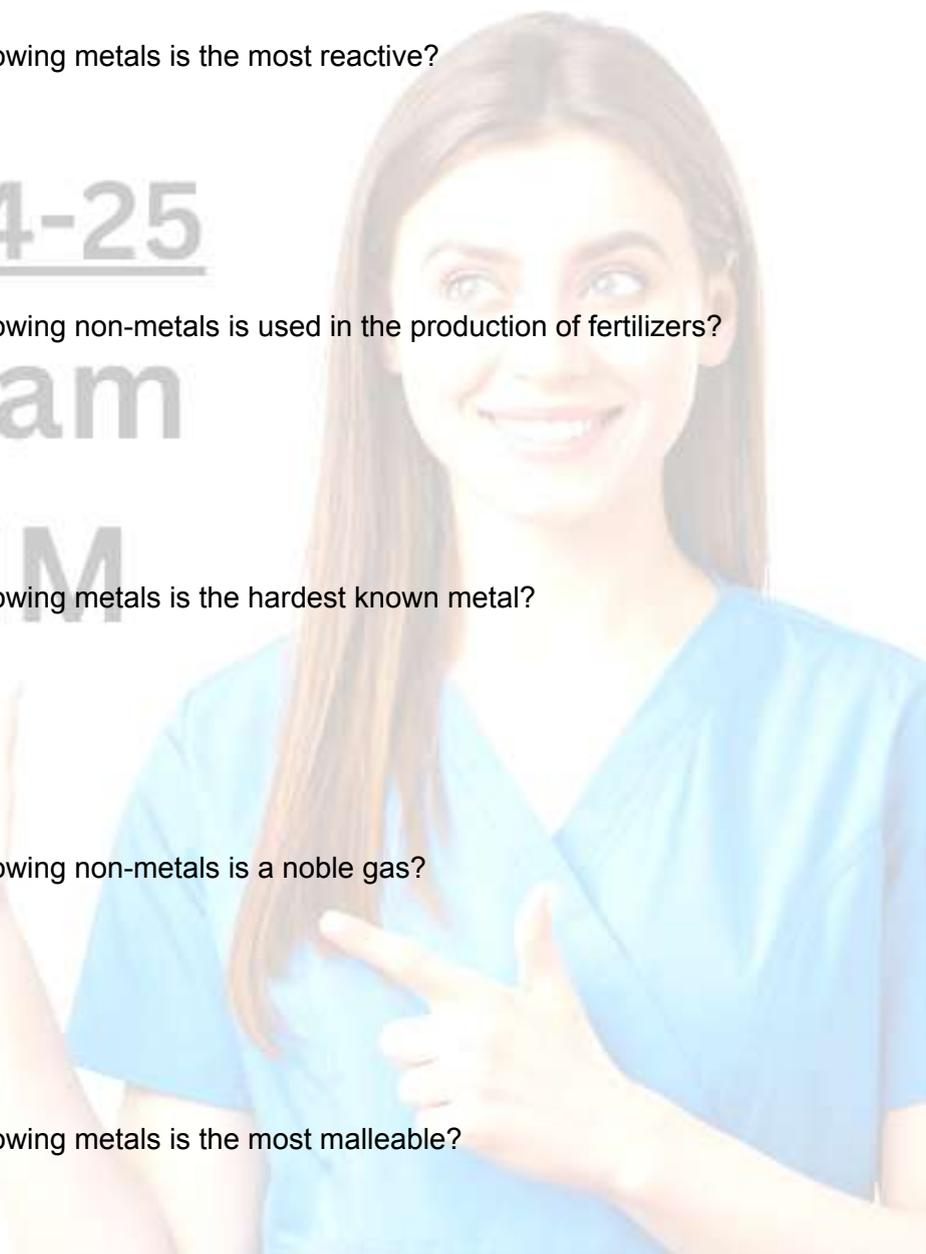
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- A) Mercury
- B) Zinc
- C) Silver
- D) Iron

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

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?

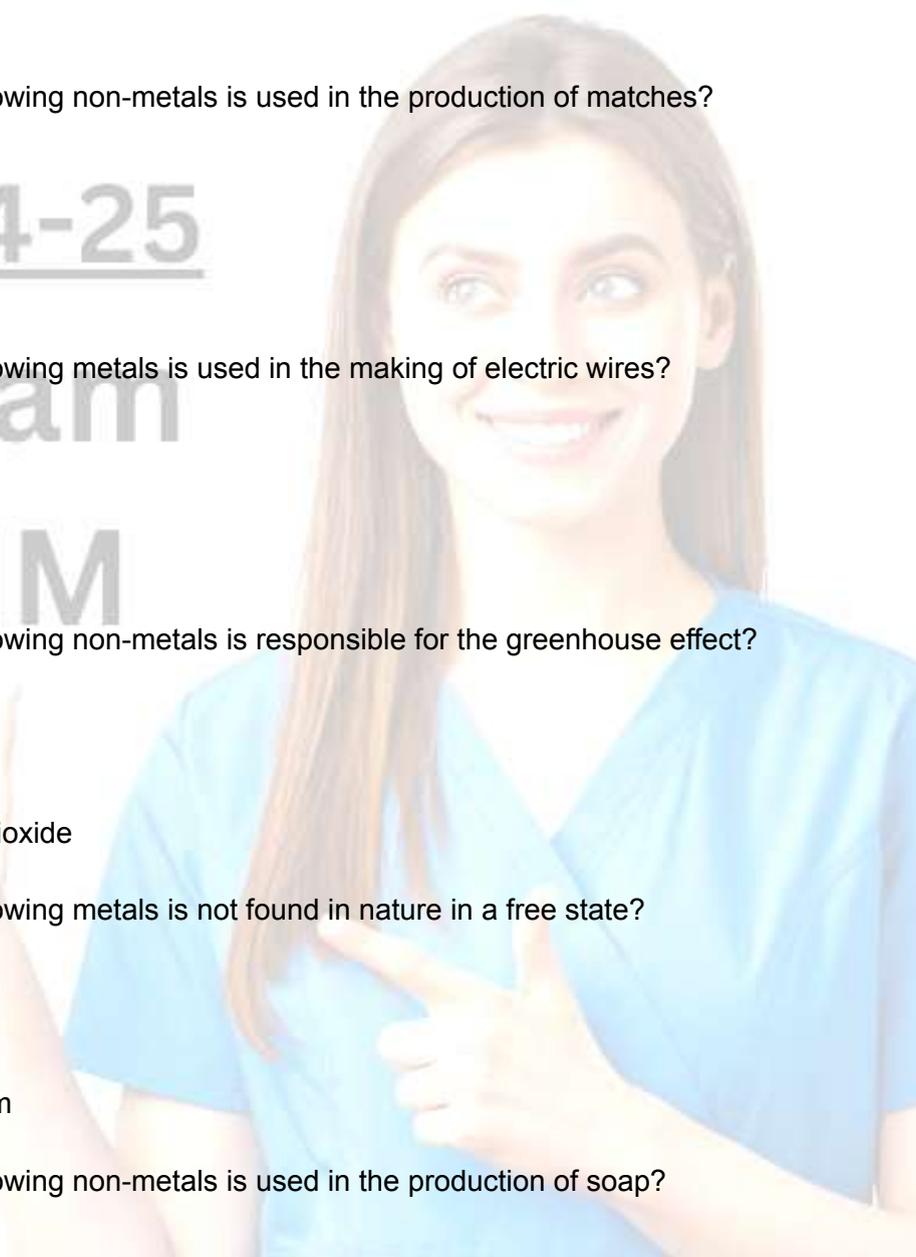
- A) Carbon
- B) Oxygen
- C) Nitrogen
- D) Sulphur

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



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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
- 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

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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
- 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

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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?

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

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- 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

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?

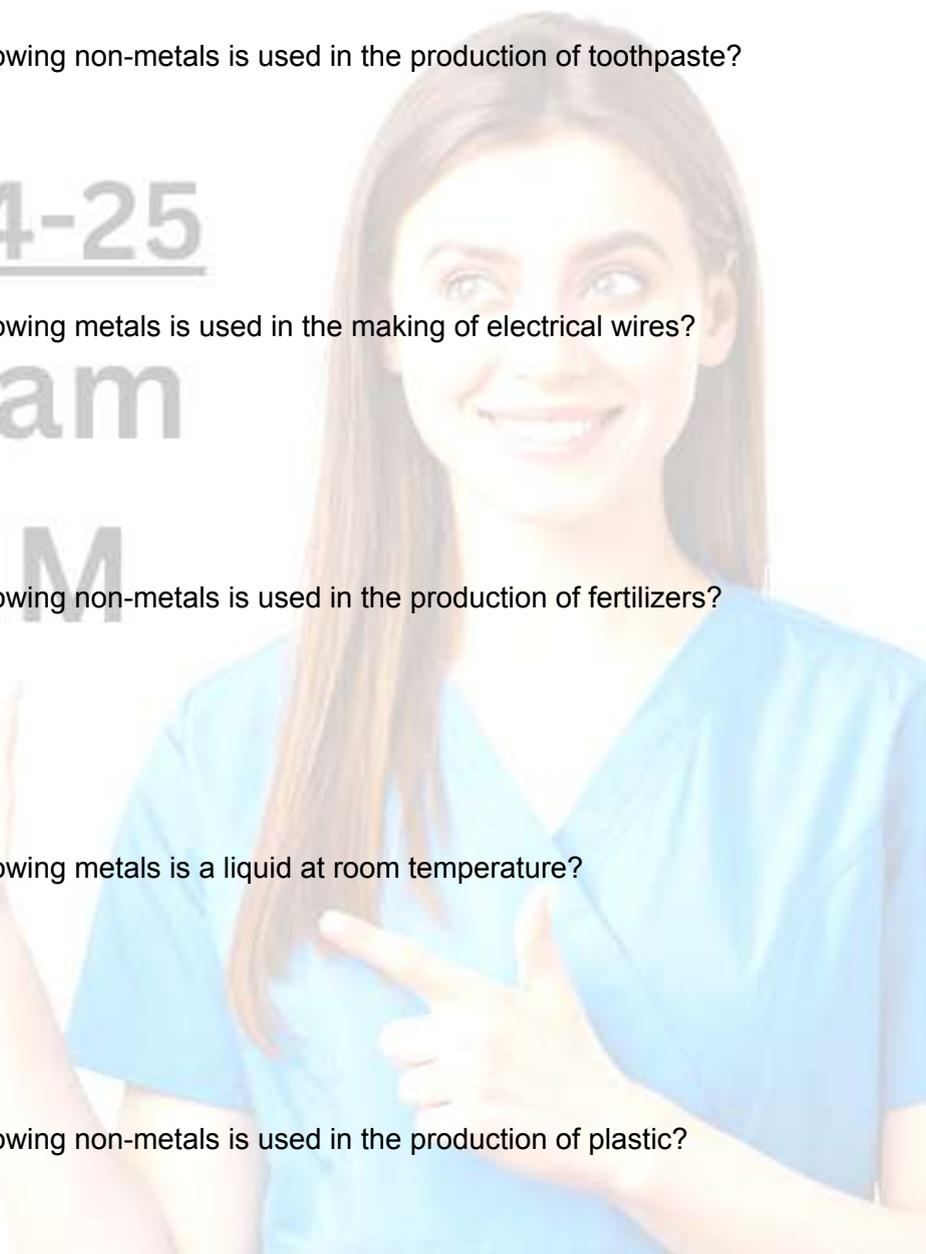
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- A) Chlorine
- B) Nitrogen
- C) Carbon
- D) Oxygen

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

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?

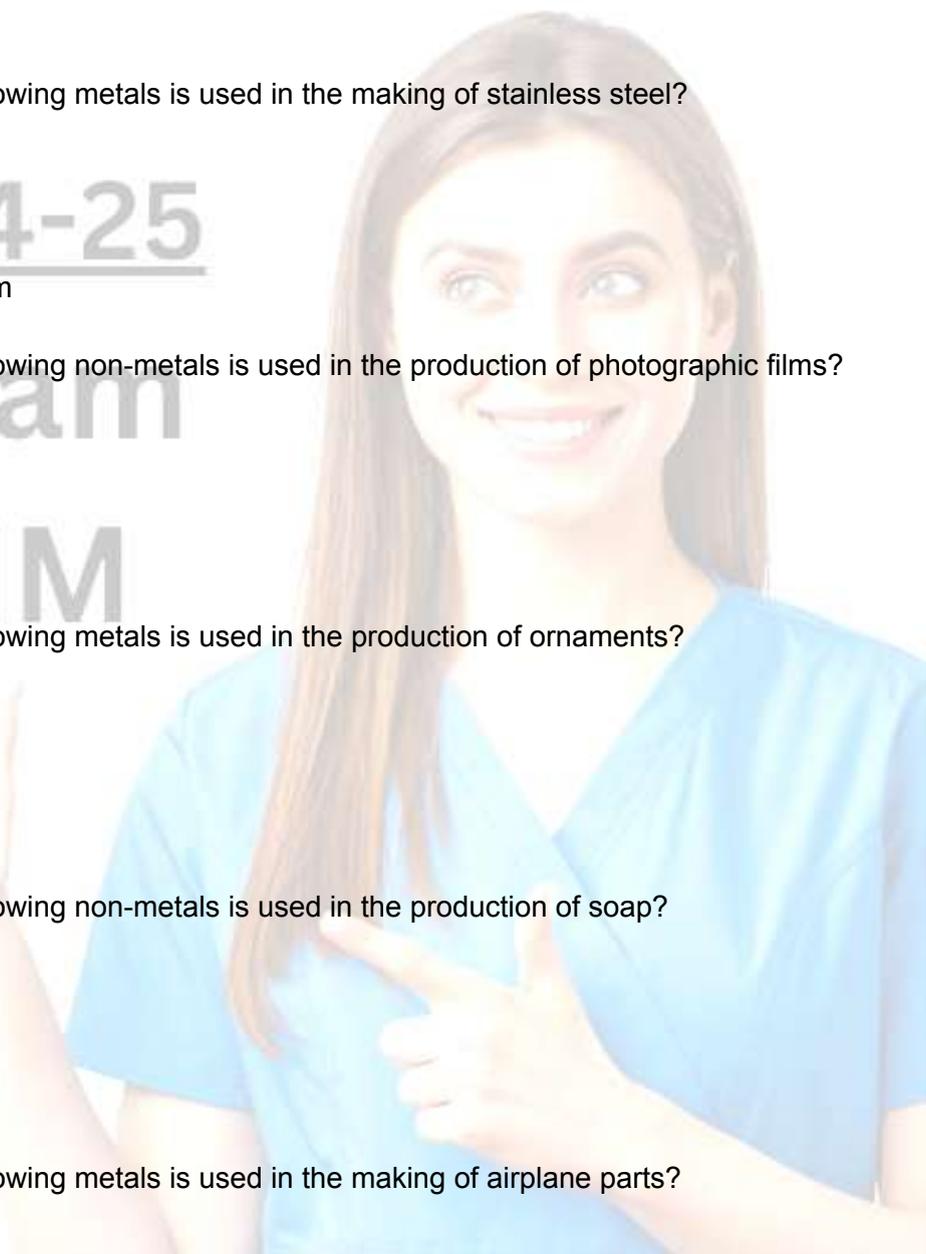
- A) Copper
- B) Aluminium
- C) Gold
- D) Silver

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



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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
- 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

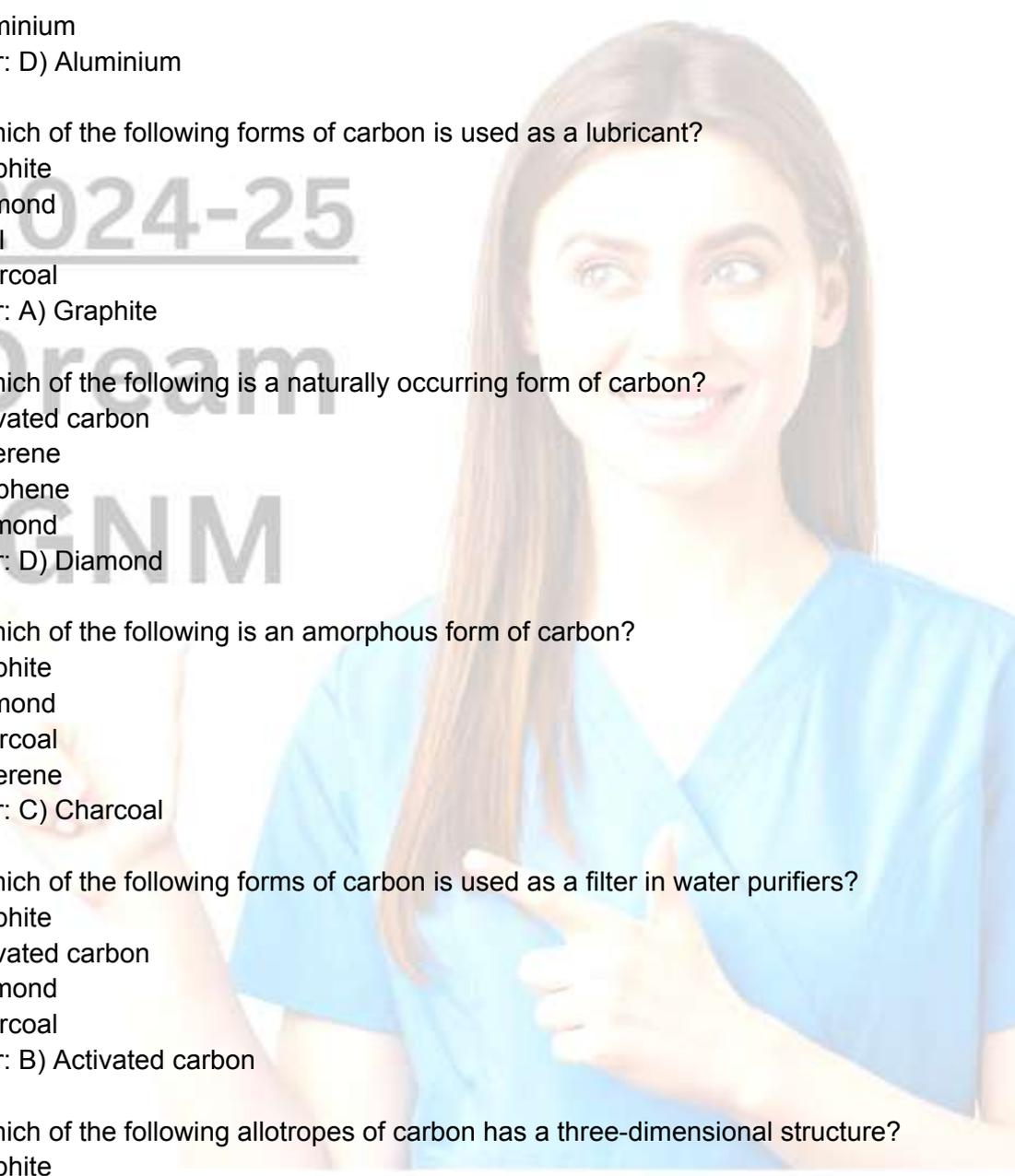
Answer: C) Fullerene

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

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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
- 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

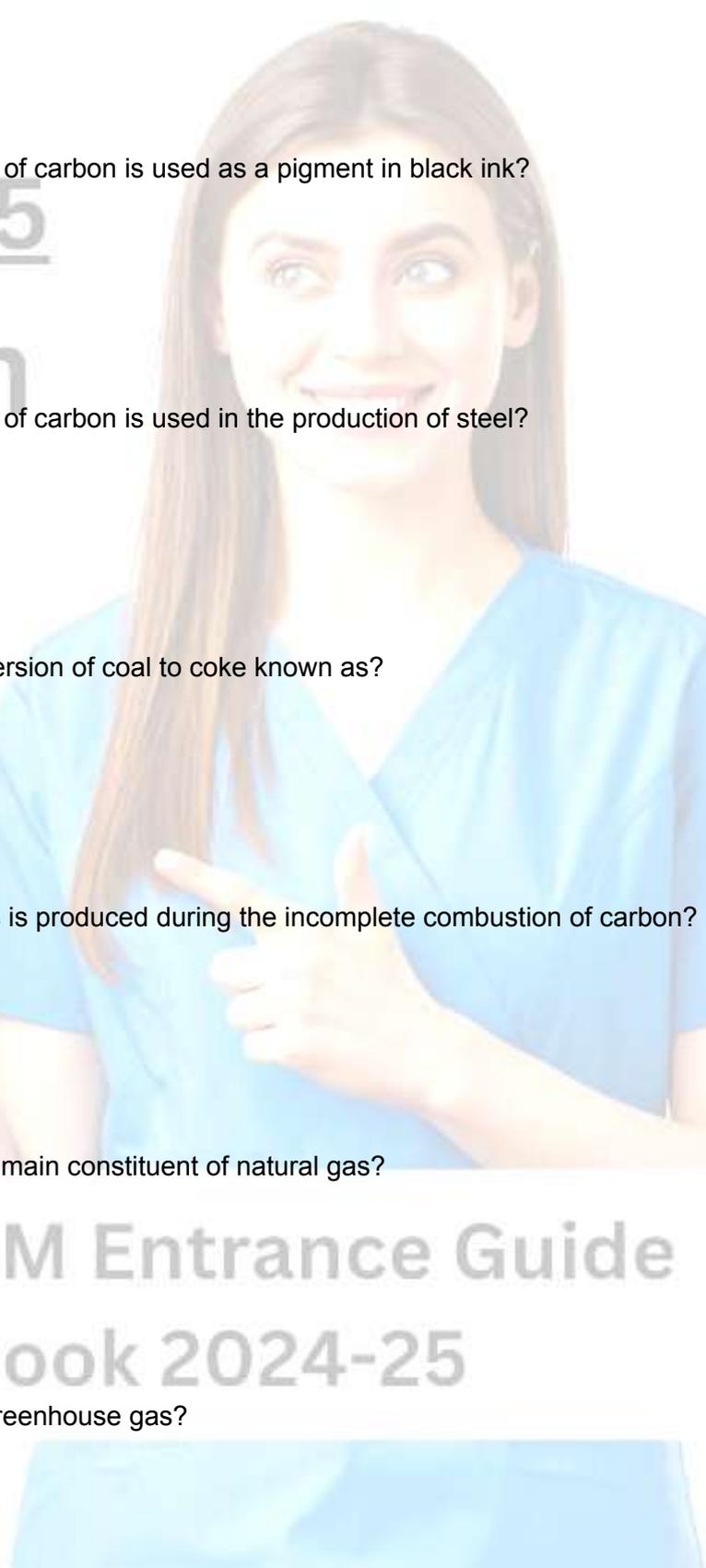
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Answer: B) Carbon dioxide

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?

- 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

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- 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

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

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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
- 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

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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

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

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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

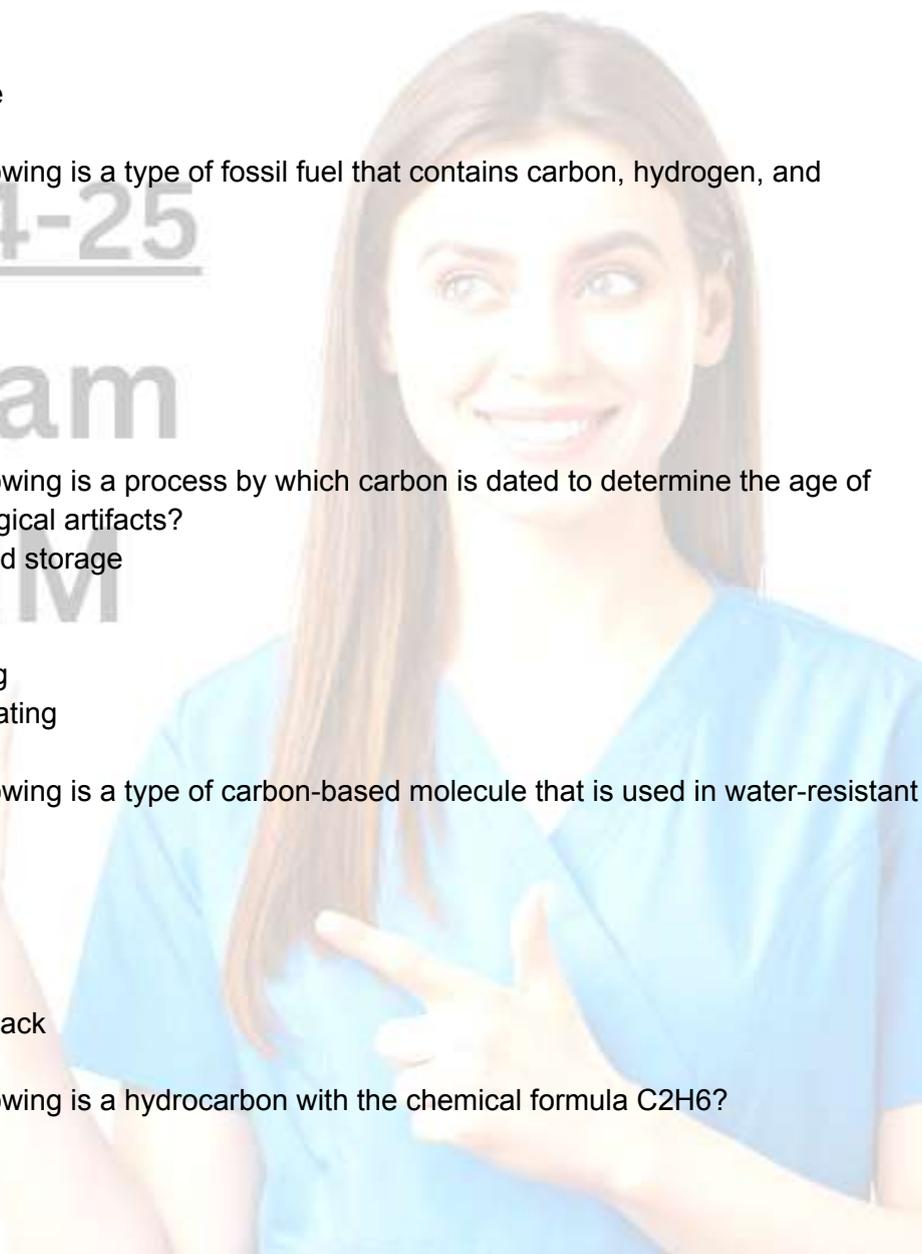
469. Which of the following is an alcohol with the chemical formula  $C_2H_5OH$ ?

- 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



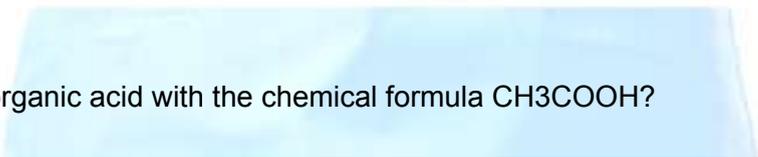
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- B) Acetic acid
  - C) Butyric acid
  - D) Citric acid
- Answer: B) Acetic acid

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
- 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
- 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

2024-25

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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

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)  $\text{H}_2\text{SO}_4$
- b)  $\text{HCl}$
- c)  $\text{CH}_3\text{COOH}$
- d)  $\text{NaOH}$

Answer: c)  $\text{CH}_3\text{COOH}$

488. Which of the following is a neutral compound?

- a)  $\text{NaOH}$
- b)  $\text{HCl}$
- c)  $\text{NaCl}$
- d)  $\text{H}_2\text{SO}_4$

Answer: c)  $\text{NaCl}$

489. What is the formula of sulfuric acid?

- a)  $\text{HNO}_3$
- b)  $\text{HCl}$
- c)  $\text{H}_2\text{SO}_4$
- d)  $\text{H}_3\text{PO}_4$

Answer: c)  $\text{H}_2\text{SO}_4$

490. Which of the following compounds is an alkane?

- a)  $\text{C}_2\text{H}_2$
- b)  $\text{C}_3\text{H}_6$
- c)  $\text{C}_4\text{H}_8$
- d)  $\text{C}_5\text{H}_{12}$

Answer: d)  $\text{C}_5\text{H}_{12}$

491. Which of the following is a covalent compound?

- a)  $\text{NaCl}$
- b)  $\text{MgO}$
- c)  $\text{H}_2\text{O}$
- d)  $\text{CaCl}_2$

Answer: c)  $\text{H}_2\text{O}$

492. Which of the following compounds is an ionic compound?

- a)  $\text{CO}_2$
- b)  $\text{NH}_3$
- c)  $\text{CaCl}_2$
- d)  $\text{CH}_4$

Answer: c)  $\text{CaCl}_2$

493. What is the name of the compound with the formula  $\text{CaCO}_3$ ?

- a) Calcium carbonate
- b) Carbonic acid

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- c) Sodium bicarbonate
- d) Calcium oxide

Answer: a) Calcium carbonate

494. Which of the following compounds is a strong acid?

- a) HCl
- b) CH<sub>3</sub>COOH
- c) HNO<sub>3</sub>
- d) H<sub>3</sub>PO<sub>4</sub>

Answer: c) HNO<sub>3</sub>

495. What is the formula of carbon dioxide?

- a) CO
- b) CO<sub>2</sub>
- c) C<sub>2</sub>O
- d) C<sub>2</sub>O<sub>3</sub>

Answer: b) CO<sub>2</sub>

496. Which of the following compounds is a salt?

- a) NaOH
- b) HCl
- c) NaCl
- d) CH<sub>3</sub>COOH

Answer: c) NaCl

497. What is the chemical formula for table salt?

- a) NaCl
- b) HCl
- c) NaOH
- d) CaCO<sub>3</sub>

Answer: a) NaCl

498. What is the chemical formula for water?

- a) H<sub>2</sub>O<sub>2</sub>
- b) H<sub>3</sub>O<sup>+</sup>
- c) H<sub>2</sub>O
- d) HO<sup>-</sup>

Answer: c) H<sub>2</sub>O

499. Which of the following compounds is a base?

- a) NaCl
- b) HNO<sub>3</sub>
- c) NH<sub>3</sub>
- d) H<sub>2</sub>SO<sub>4</sub>

Answer: c) NH<sub>3</sub>

500. What is the name of the compound with the formula NH<sub>4</sub>Cl?

- a) Sodium chloride

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- 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<sub>2</sub>
- b) O<sub>2</sub>
- c) N<sub>2</sub>
- d) H<sub>2</sub>

Answer: a) CO<sub>2</sub>

502. What is the chemical formula for methane?

- a) CH<sub>4</sub>
- b) C<sub>2</sub>H<sub>6</sub>
- c) C<sub>3</sub>H<sub>8</sub>
- d) C<sub>4</sub>H<sub>10</sub>

Answer: a) CH<sub>4</sub>

503. Which of the following is an organic compound?

- a) NaCl
- b) H<sub>2</sub>SO<sub>4</sub>
- c) CH<sub>4</sub>
- d) CaCO<sub>3</sub>

Answer: c) CH<sub>4</sub>

504. What is the chemical formula for sulfur dioxide?

- a) SO<sub>3</sub>
- b) SO<sub>2</sub>
- c) S<sub>2</sub>O<sub>3</sub>
- d) S<sub>2</sub>O<sub>5</sub>

Answer: b) SO<sub>2</sub>

505. What is the name of the compound with the formula H<sub>2</sub>SO<sub>4</sub>?

- 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<sub>3</sub>
- c) H<sub>2</sub>SO<sub>4</sub>
- d) CO<sub>2</sub>

Answer: b) NH<sub>3</sub>

507. Which of the following compounds is used as a preservative for food?

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- 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
- 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)  $NaHCO_3$

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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

515. What is the chemical formula for carbon monoxide?

- a) CO<sub>2</sub>
- b) CO
- c) C<sub>2</sub>H<sub>6</sub>
- d) CH<sub>4</sub>

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

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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
- 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

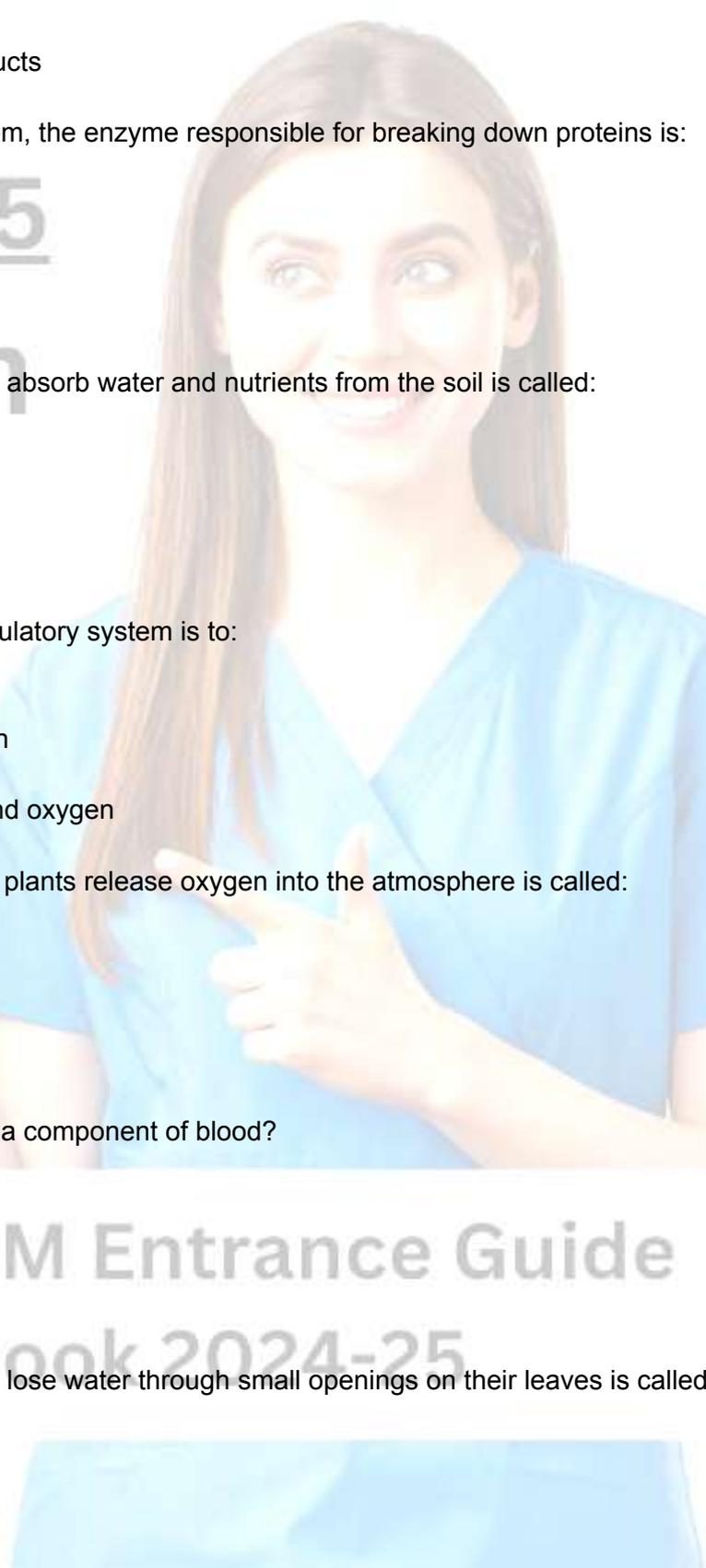
526. The process by which plants lose water through small openings on their leaves is called:

- a) Respiration
- b) Transpiration
- c) Photosynthesis
- d) Absorption

Answer: b) Transpiration

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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:

- 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

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2024-25

- 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

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

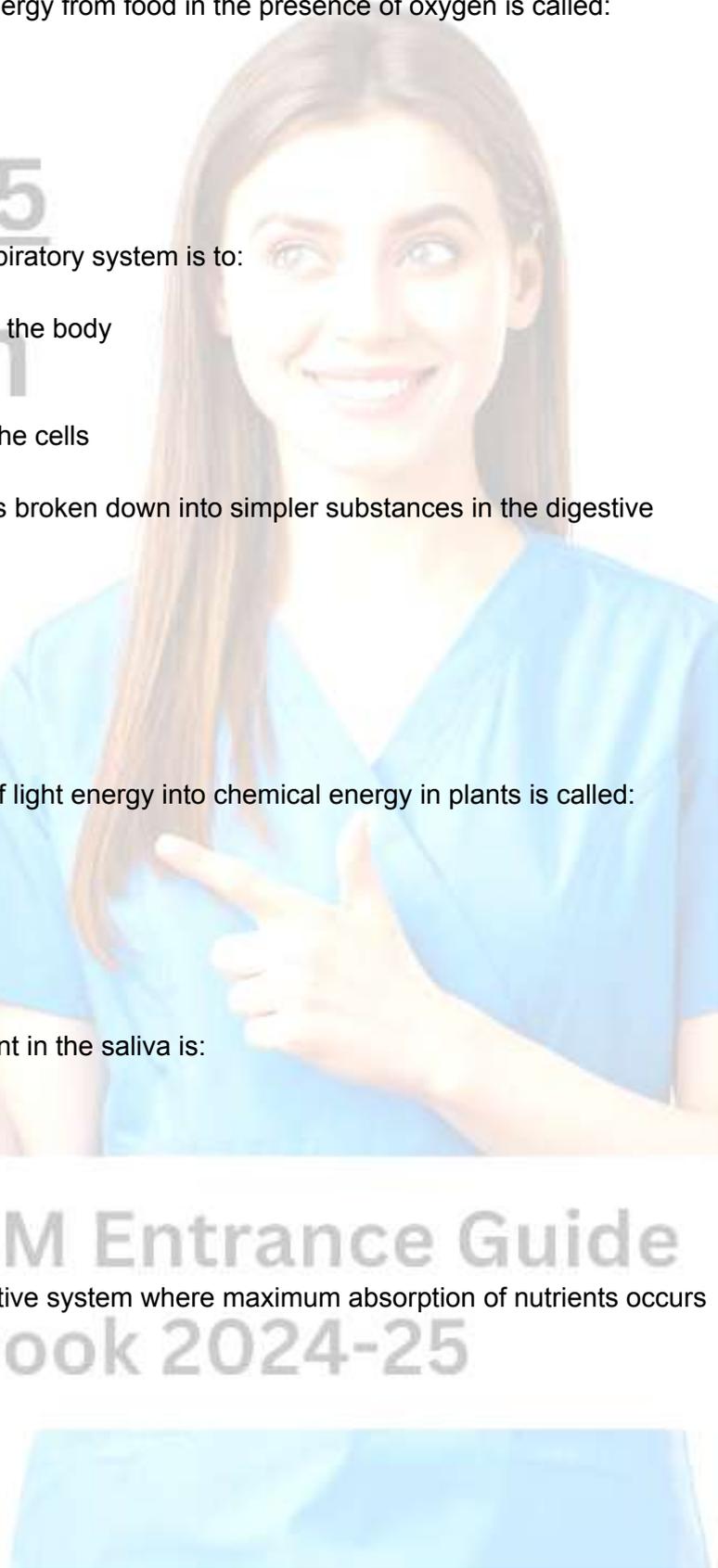
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540. Which of the following is not a function of the liver?

- 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
- 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

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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:

- 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

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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

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

667. 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

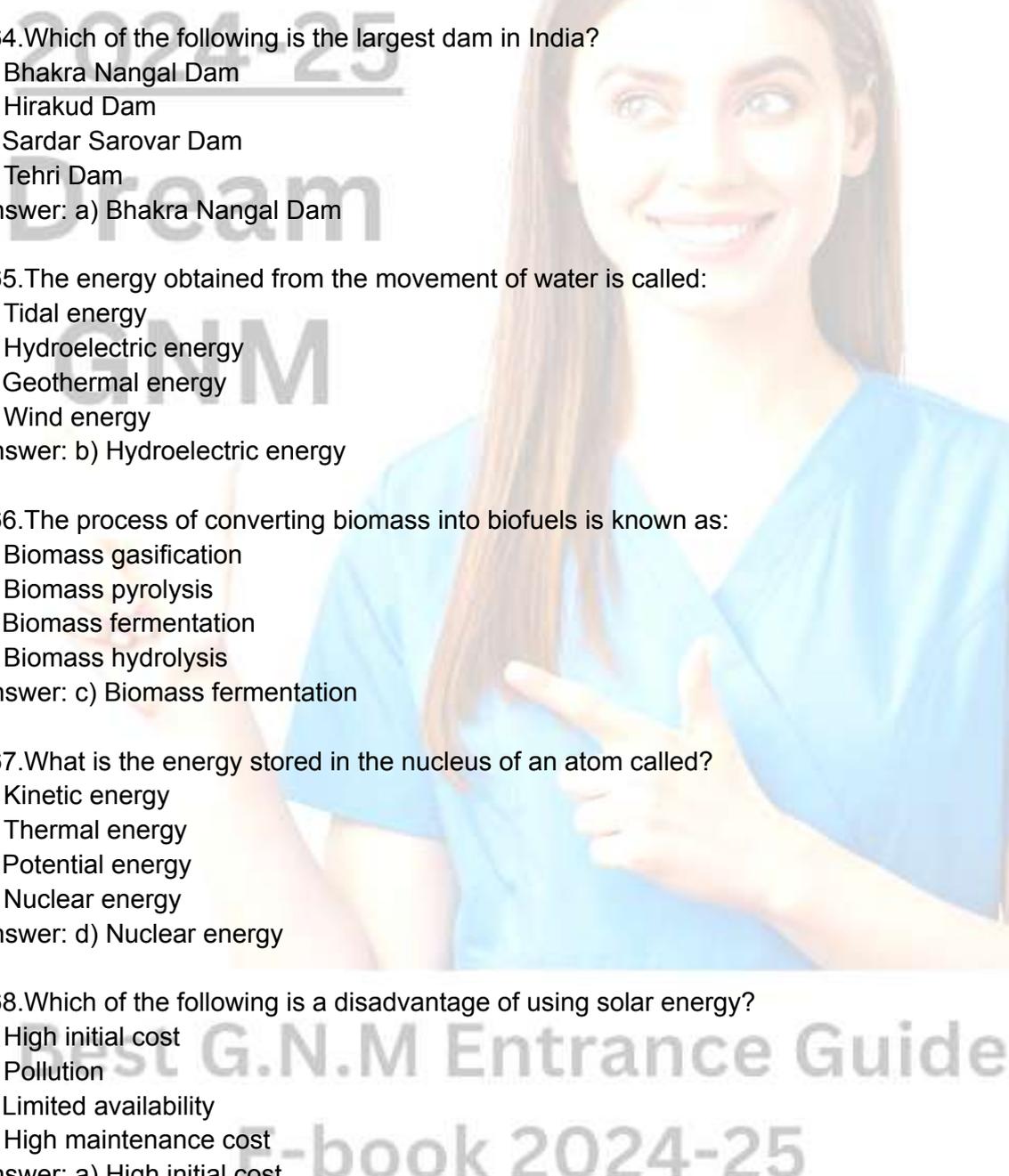
568. Which of the following is a disadvantage of using solar energy?

- 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

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

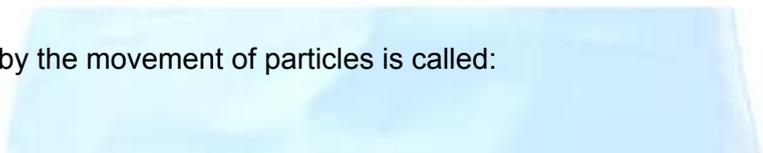
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- c) Nuclear energy
- d) Sound energy

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

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

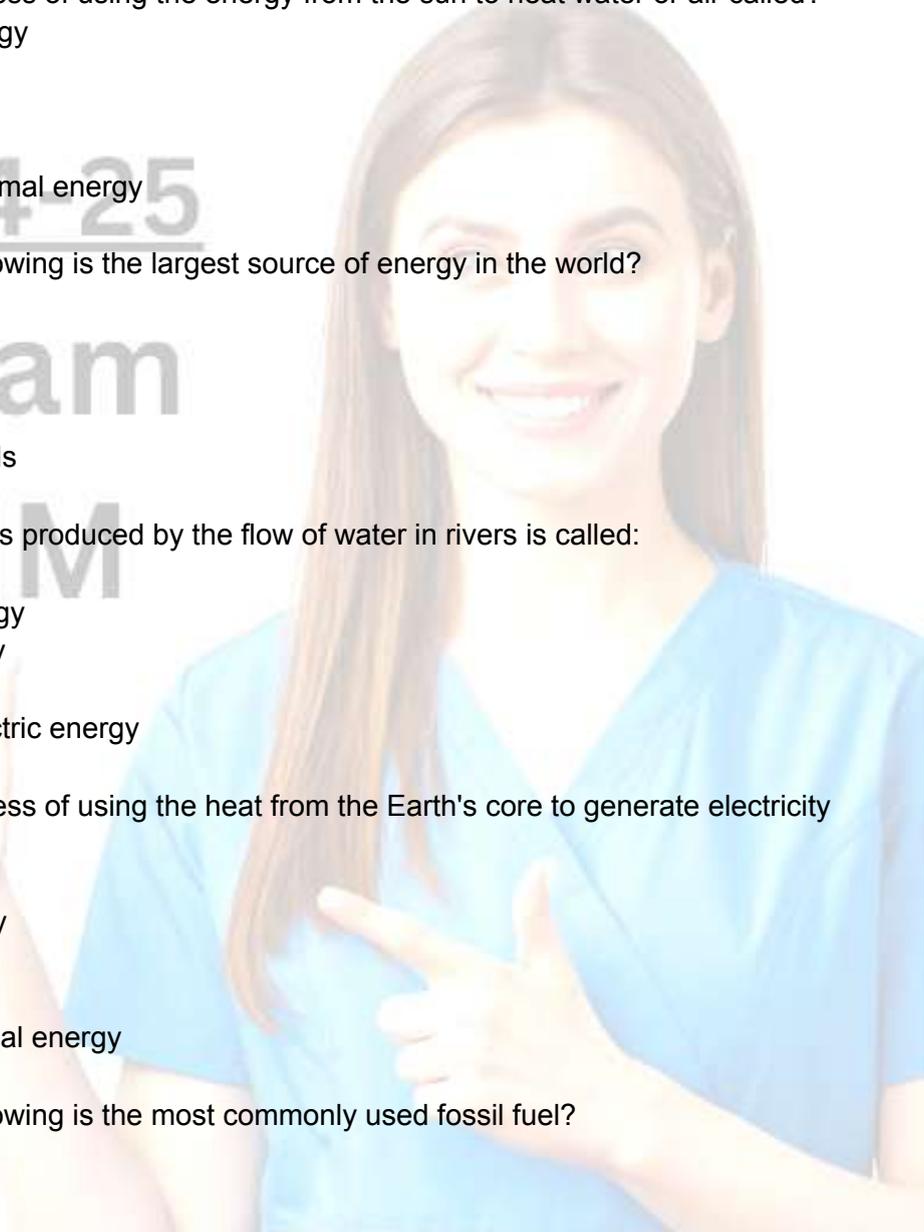
Answer: c) Petroleum

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
- 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?

- 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?

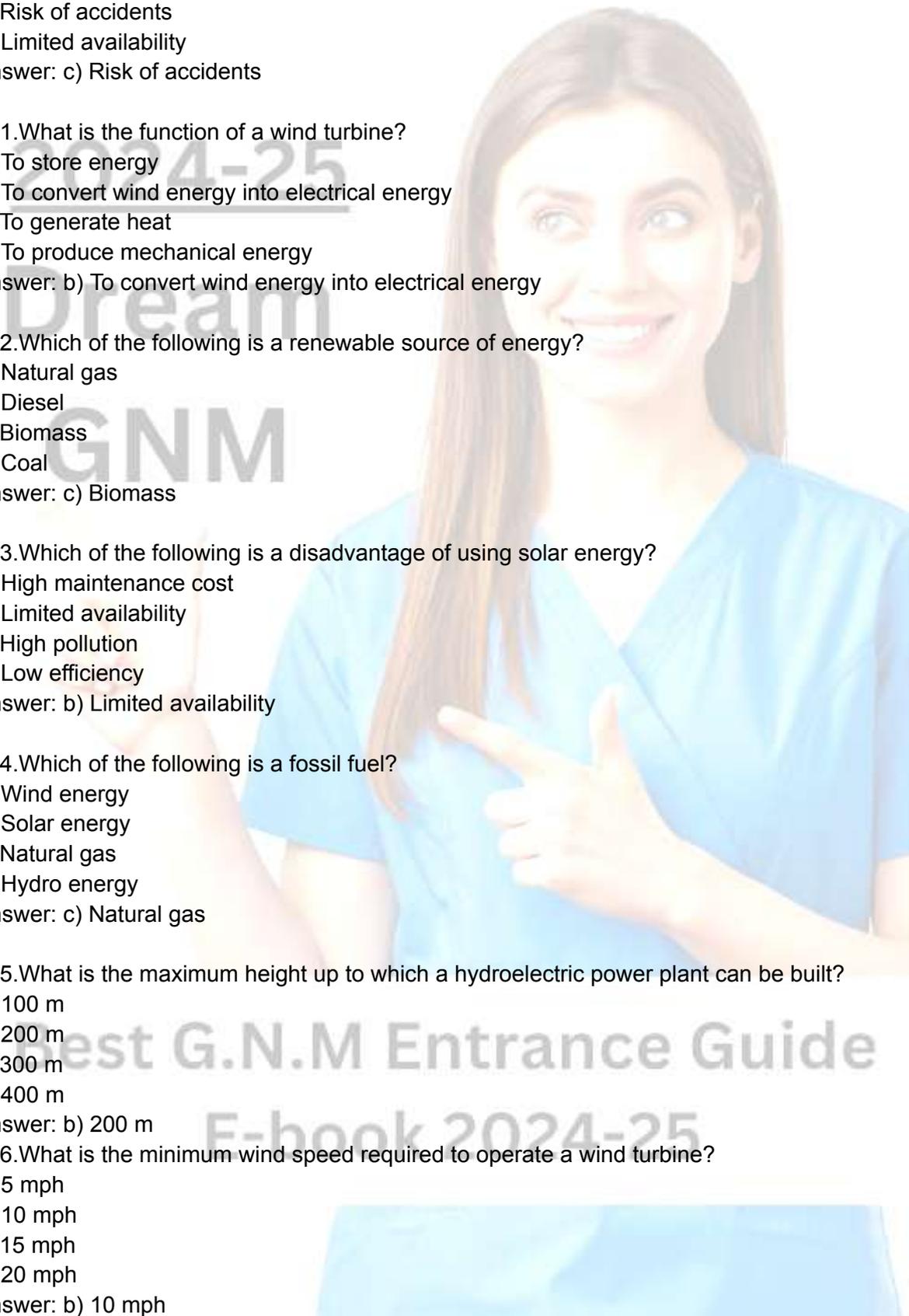
- a) 100 m
- b) 200 m
- c) 300 m
- d) 400 m

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?

- 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

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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%

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?

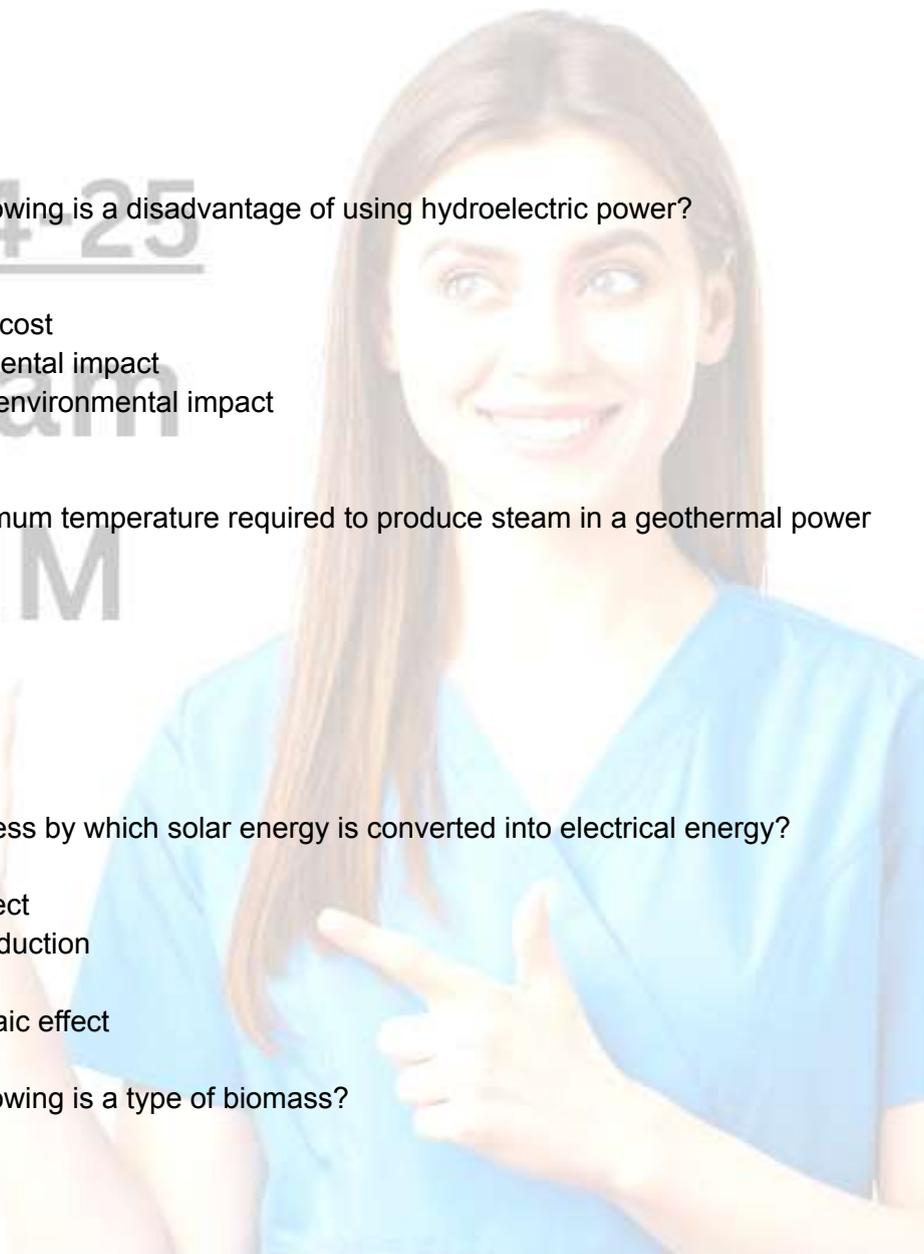
- a) Unlimited availability

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- 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
- 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?

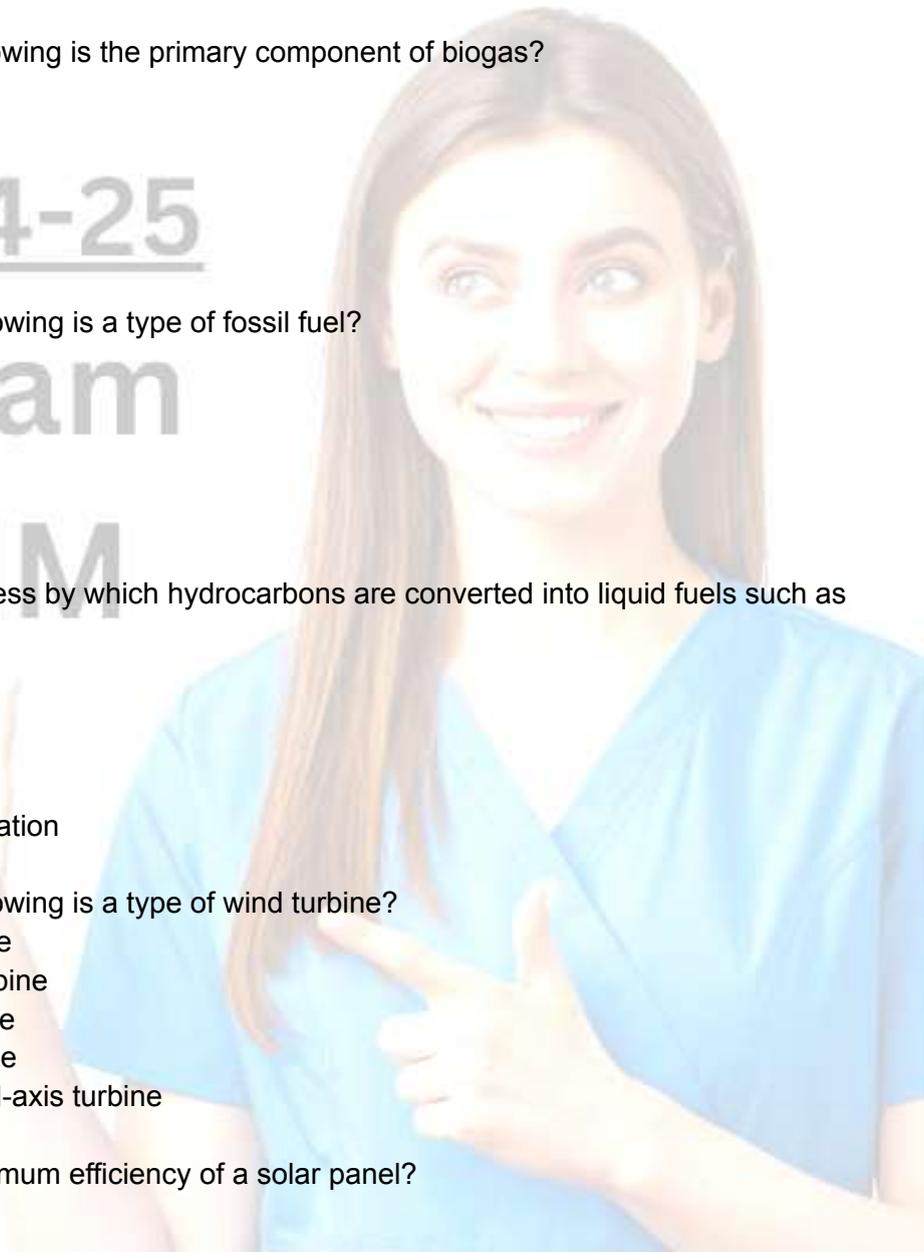
- a) 20%
- b) 30%
- c) 40%
- d) 50%

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



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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
- 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

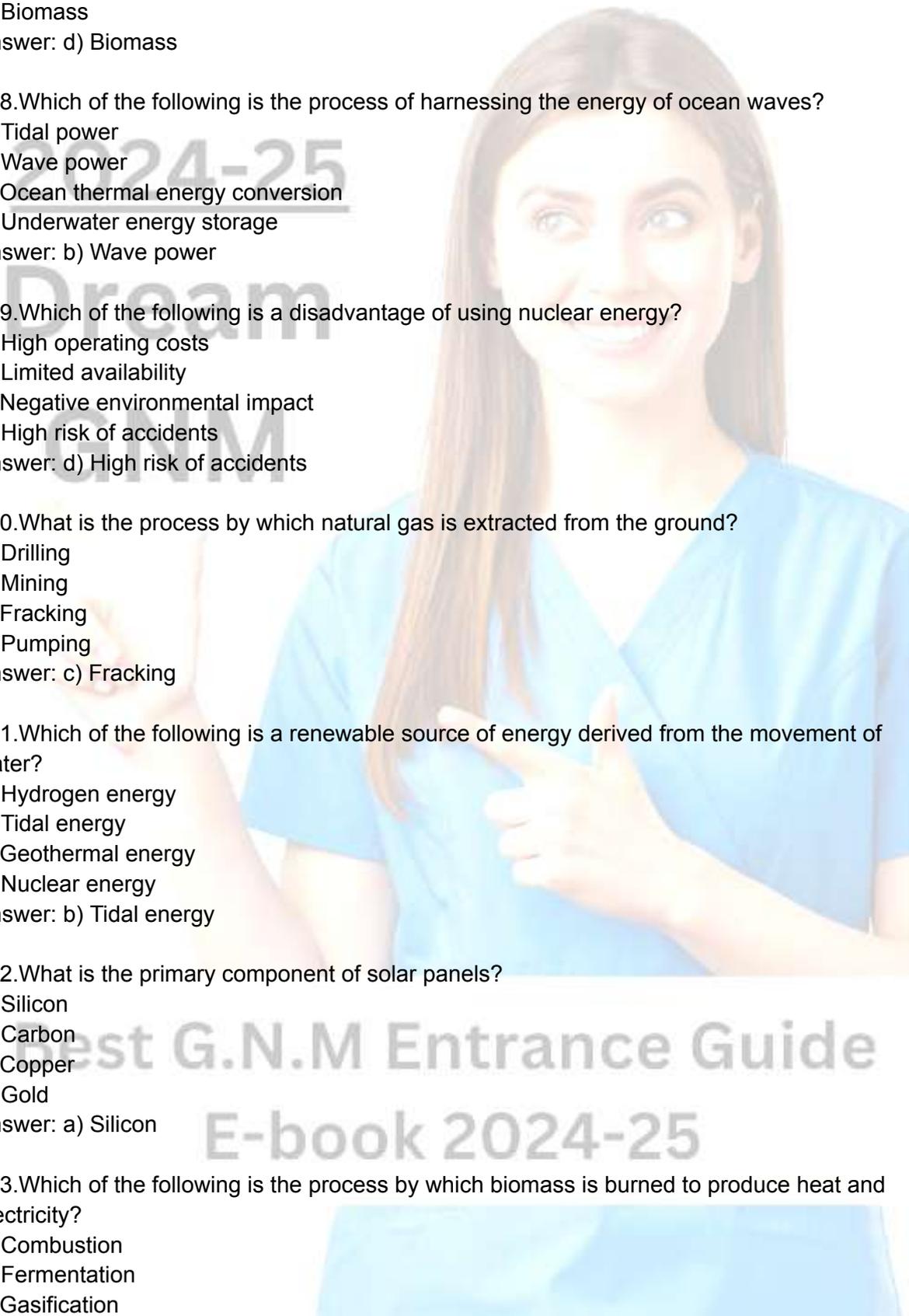
622. What is the primary component of solar panels?

- 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

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

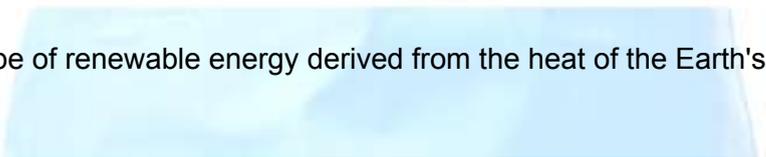
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- b) Geothermal energy
  - c) Wave energy
  - d) Biomass energy
- Answer: b) Geothermal energy

630. Which of the following is a type of fossil fuel that is commonly used for heating and cooking?

- a) Coal
- b) Oil
- 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

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)

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)

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

## Popular Science

What is the chemical symbol for the element gold?

- a) Au
- b) Ag
- c) Fe
- d) Cu

Answer: a) Au

Which planet in our solar system is known as the "Red Planet"?

- a) Mars
- b) Venus
- c) Mercury
- d) Jupiter

Answer: a) Mars

What is the largest organ in the human body?

- a) Skin
- b) Liver
- c) Heart
- d) Brain

Answer: a) Skin

What is the process by which plants convert sunlight into energy called?

- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Fermentation

Answer: a) Photosynthesis

Which particle is responsible for carrying an electric charge?

- a) Electron
- b) Neutron
- c) Proton
- d) Photon

Answer: a) Electron

What is the unit of measurement for electric current?

- a) Ampere
- b) Volt
- c) Ohm
- d) Watt

Answer: a) Ampere

Which of the following is not a type of renewable energy source?

- a) Solar power
- b) Wind power
- c) Nuclear power
- d) Hydroelectric power

Answer: c) Nuclear power

What is the process by which an organism changes over time to better suit its environment called?

- a) Evolution
- b) Adaptation
- c) Natural selection
- d) Mutation

Answer: b) Adaptation

Which of the following is not a phase of matter?

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

Answer: d) Energy

What is the largest planet in our solar system?

- a) Jupiter
- b) Saturn
- c) Earth
- d) Neptune

Answer: a) Jupiter

What is the unit of measurement for speed of light?

- a) Kilometers per hour
  - b) Meters per second
  - c) Miles per hour
  - d) Lightyears per century
- Answer: b) Meters per second

Which gas makes up the majority of Earth's atmosphere?

- a) Nitrogen
  - b) Oxygen
  - c) Carbon dioxide
  - d) Hydrogen
- Answer: a) Nitrogen

What is the smallest unit of matter?

- a) Atom
  - b) Electron
  - c) Molecule
  - d) Proton
- Answer: a) Atom

What is the process by which a solid turns into a gas without passing through the liquid state called?

- a) Sublimation
  - b) Condensation
  - c) Evaporation
  - d) Melting
- Answer: a) Sublimation

Which scientist is known for developing the theory of general relativity?

- a) Albert Einstein
  - b) Isaac Newton
  - c) Stephen Hawking
  - d) Galileo Galilei
- Answer: a) Albert Einstein

What is the chemical symbol for the element oxygen?

- a) O

b) Oc

c) Ox

d) Om

Answer: a) O

Which type of electromagnetic radiation has the shortest wavelength?

a) Gamma rays

b) X-rays

c) Ultraviolet rays

d) Infrared rays

Answer: a) Gamma rays

What is the largest organ in the human body by weight?

a) Skin

b) Liver

c) Brain

d) Heart

Answer: b) Liver

What is the process by which plants convert carbon dioxide into oxygen called?

a) Photosynthesis

b) Respiration

c) Transpiration

d) Combustion

Answer: a) Photosynthesis

Which subatomic particle has a positive charge?

a) Proton

b) Neutron

c) Electron

d) Photon

Answer: a) Proton

What is the largest planet in our solar system?

a) Jupiter

b) Saturn

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- c) Earth
- d) Neptune

Answer: a) Jupiter

Which of the following is not a type of rock?

- a) Igneous
- b) Metamorphic
- c) Sedimentary
- d) Magnetic

Answer: d) Magnetic

What is the process by which plants convert sunlight into energy called?

- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Fermentation

Answer: a) Photosynthesis

What is the unit of measurement for electric current?

- a) Ampere
- b) Volt
- c) Ohm
- d) Watt

Answer: a) Ampere

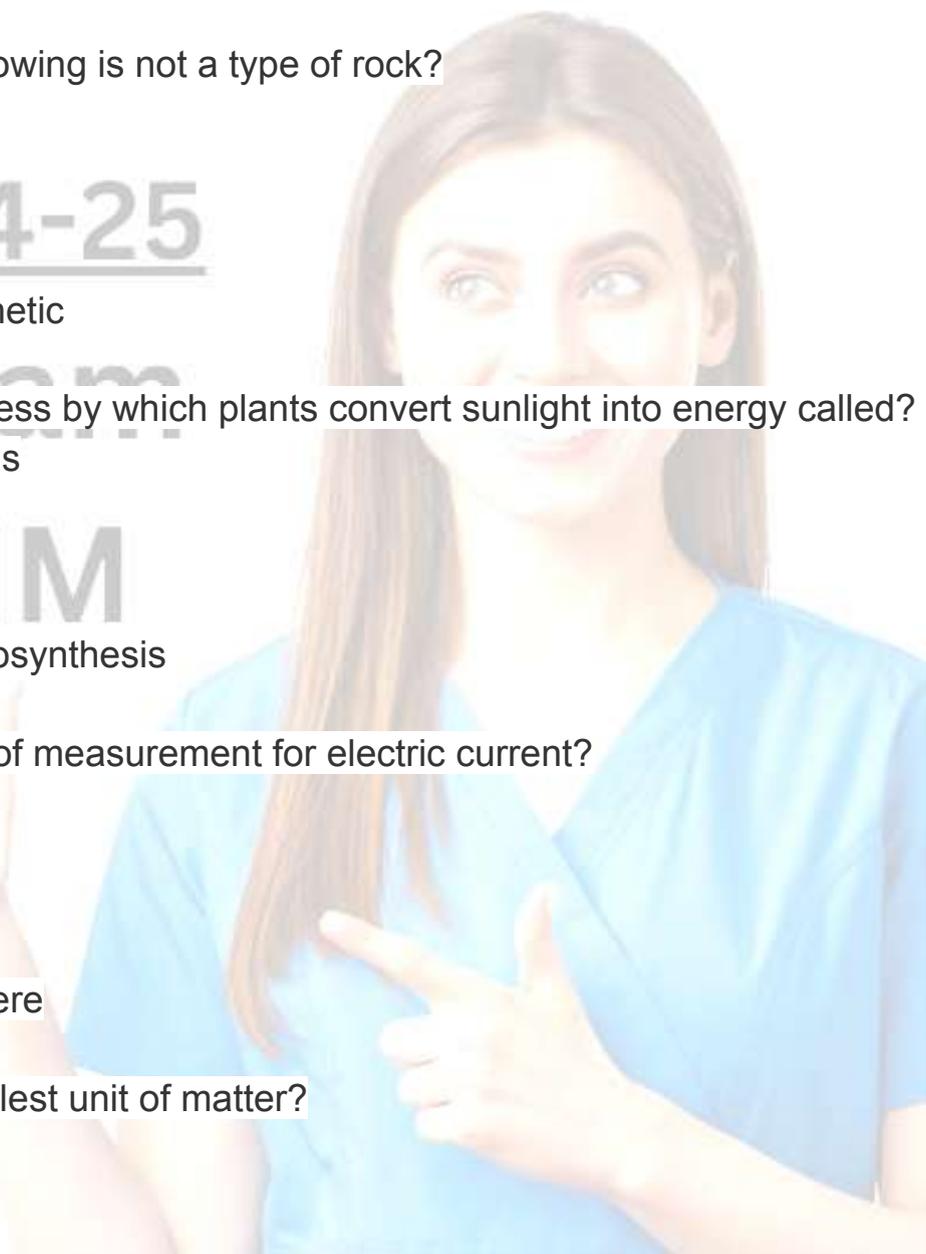
What is the smallest unit of matter?

- a) Atom
- b) Electron
- c) Molecule
- d) Proton

Answer: a) Atom

What is the process by which an organism changes over time to better suit its environment called?

- a) Evolution
- b) Adaptation
- c) Natural selection



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d) Mutation

Answer: b) Adaptation

Which of the following is not a state of matter?

a) Solid

b) Liquid

c) Gas

d) Energy

Answer: d) Energy

What is the chemical symbol for the element carbon?

a) C

b) Co

c) Cr

d) Ca

Answer: a) C

Which type of electromagnetic radiation has the longest wavelength?

a) Radio waves

b) Infrared rays

c) X-rays

d) Gamma rays

Answer: a) Radio waves

What is the process by which a liquid turns into a gas called?

a) Evaporation

b) Condensation

c) Sublimation

d) Vaporization

Answer: a) Evaporation

What is the largest organ in the human body?

a) Liver

b) Skin

c) Brain

d) Heart

Answer: b) Skin

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What is the chemical symbol for the element iron?

- a) I
- b) Fe
- c) Ir
- d) In

Answer: b) Fe

Which gas is most abundant in Earth's atmosphere?

- a) Nitrogen
- b) Oxygen
- c) Carbon dioxide
- d) Argon

Answer: a) Nitrogen

Which planet has the most moons in our solar system?

- a) Jupiter
- b) Saturn
- c) Uranus
- d) Mars

Answer: a) Jupiter

What is the process by which plants release water vapor through their leaves?

- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Evaporation

Answer: c) Transpiration

Which scientist is known for his theory of general relativity and the equation  $E=mc^2$ ?

- a) Albert Einstein
- b) Isaac Newton
- c) Nikola Tesla
- d) Marie Curie

Answer: a) Albert Einstein

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What is the unit of measurement for energy?

- a) Watt
- b) Joule
- c) Newton
- d) Ohm

Answer: b) Joule

What is the process by which a gas turns into a liquid called?

- a) Evaporation
- b) Condensation
- c) Sublimation
- d) Vaporization

Answer: b) Condensation

Which of the following is not a primary color of light?

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

Answer: c) Yellow

What is the chemical symbol for the element hydrogen?

- a) H
- b) He
- c) Ho
- d) Hy

Answer: a) H

What is the largest organ in the human body by volume?

- a) Liver
- b) Lungs
- c) Brain
- d) Heart

Answer: b) Lungs

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What is the chemical symbol for the element sodium?

- a) Na
- b) So
- c) Sn
- d) Sa

Answer: a) Na

Which gas is responsible for the distinctive smell of rotten eggs?

- a) Carbon dioxide
- b) Hydrogen
- c) Sulfur dioxide
- d) Ammonia

Answer: c) Sulfur dioxide

What is the process by which a solid changes directly into a gas called?

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

Answer: a) Sublimation

Which scientist is credited with the discovery of the laws of motion?

- a) Isaac Newton
- b) Galileo Galilei
- c) Albert Einstein
- d) Nikola Tesla

Answer: a) Isaac Newton

What is the unit of measurement for electric resistance?

- a) Ohm
- b) Volt
- c) Ampere
- d) Watt

Answer: a) Ohm

What is the process by which plants convert light energy into chemical energy?

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- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Combustion

Answer: a) Photosynthesis

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

- a) Gamma rays
- b) X-rays
- c) Ultraviolet rays
- d) Sonar waves

Answer: d) Sonar waves

What is the chemical symbol for the element potassium?

- a) K
- b) Pt
- c) Po
- d) Ke

Answer: a) K

What is the process by which a gas changes into a liquid called?

- a) Condensation
- b) Evaporation
- c) Sublimation
- d) Vaporization

Answer: a) Condensation

Which of the following is not a type of rock?

- a) Granite
- b) Basalt
- c) Gneiss
- d) Bronze

Answer: d) Bronze

What is the chemical symbol for the element silver?

- a) Ag

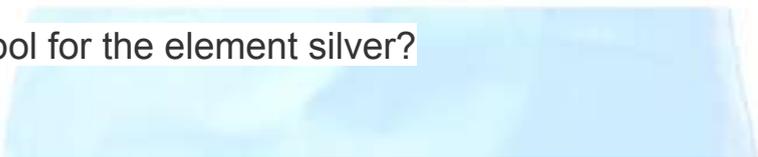
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- b) Si
- c) Sv
- d) Sn

Answer: a) Ag

Which gas is responsible for the Earth's ozone layer?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Ozone

Answer: a) Oxygen

What is the unit of measurement for the force of gravity?

- a) Newton
- b) Watt
- c) Joule
- d) Pascal

Answer: a) Newton

What is the process by which a liquid turns into a solid called?

- a) Melting
- b) Evaporation
- c) Freezing
- d) Condensation

Answer: c) Freezing

Which scientist is known for his theory of evolution by natural selection?

- a) Charles Darwin
- b) Gregor Mendel
- c) Louis Pasteur
- d) Rosalind Franklin

Answer: a) Charles Darwin

What is the unit of measurement for electric voltage?

- a) Volt
- b) Ampere
- c) Ohm

d) Watt

Answer: a) Volt

What is the process by which a liquid turns into a gas at the surface of the liquid called?

a) Condensation

b) Sublimation

c) Evaporation

d) Vaporization

Answer: c) Evaporation

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

a) Infrared rays

b) Ultraviolet rays

c) Radio waves

d) Sound waves

Answer: d) Sound waves

What is the chemical symbol for the element calcium?

a) Ca

b) Cl

c) Cm

d) Co

Answer: a) Ca

What is the largest ocean on Earth?

a) Atlantic Ocean

b) Indian Ocean

c) Pacific Ocean

d) Arctic Ocean

Answer: c) Pacific Ocean

What is the chemical symbol for the element helium?

a) H

b) He

c) Ho

d) Hy



Answer: b) He

Which of the following is not a renewable energy source?

- a) Solar power
- b) Wind power
- c) Fossil fuel
- d) Hydroelectric power

Answer: c) Fossil fuel

What is the process by which a gas changes directly into a solid called?

- a) Sublimation
- b) Condensation
- c) Evaporation
- d) Deposition

Answer: d) Deposition

Which scientist is known for the theory of general relativity and the famous equation  $E=mc^2$ ?

- a) Albert Einstein
- b) Isaac Newton
- c) Marie Curie
- d) Galileo Galilei

Answer: a) Albert Einstein

What is the unit of measurement for electric power?

- a) Watt
- b) Volt
- c) Ampere
- d) Ohm

Answer: a) Watt

What is the process by which a liquid turns into a gas throughout its entire volume called?

- a) Vaporization
- b) Evaporation
- c) Condensation
- d) Boiling

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Answer: d) Boiling

What is the chemical symbol for the element nitrogen?

- a) N
- b) Ni
- c) Ne
- d) Na

Answer: a) N

What is the study of fossils called?

- a) Paleontology
- b) Archaeology
- c) Anthropology
- d) Geology

Answer: a) Paleontology

What is the process by which a solid turns directly into a gas without becoming a liquid called?

- a) Sublimation
- b) Vaporization
- c) Evaporation
- d) Condensation

Answer: a) Sublimation

What is the largest planet in our solar system?

- a) Jupiter
- b) Saturn
- c) Earth
- d) Neptune

Answer: a) Jupiter

What is the chemical symbol for the element gold?

- a) G
- b) Au
- c) Go
- d) Gl

Answer: b) Au

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What is the process by which plants convert sunlight into energy called?

- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Fermentation

Answer: a) Photosynthesis

What is the unit of measurement for electric current?

- a) Ampere
- b) Volt
- c) Ohm
- d) Watt

Answer: a) Ampere

What is the smallest unit of matter?

- a) Atom
- b) Electron
- c) Molecule
- d) Proton

Answer: a) Atom

What is the process by which an organism changes over time to better suit its environment called?

- a) Evolution
- b) Adaptation
- c) Natural selection
- d) Mutation

Answer: b) Adaptation

Which of the following is not a state of matter?

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

Answer: d) Energy

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What is the chemical symbol for the element carbon?

- a) C
- b) Co
- c) Cr
- d) Ca

Answer: a) C

Which type of electromagnetic radiation has the longest wavelength?

- a) Radio waves
- b) Infrared rays
- c) X-rays
- d) Gamma rays

Answer: a) Radio waves

What is the process by which a liquid turns into a gas called?

- a) Evaporation
- b) Condensation
- c) Sublimation
- d) Vaporization

Answer: a) Evaporation

What is the chemical symbol for the element oxygen?

- a) O
- b) Ox
- c) Oc
- d) O<sub>xg</sub>

Answer: a) O

Which of the following is a renewable source of energy?

- a) Coal
- b) Natural gas
- c) Solar power
- d) Nuclear power

Answer: c) Solar power

What is the process by which light bounces off a surface called?

- a) Reflection

- b) Refraction
- c) Absorption
- d) Diffraction

Answer: a) Reflection

Which of the following is not a type of cell in the human body?

- a) Nerve cell
- b) Muscle cell
- c) Blood cell
- d) Light cell

Answer: d) Light cell

What is the chemical symbol for the element calcium?

- a) Ca
- b) C
- c) Cl
- d) Ce

Answer: a) Ca

What is the force that attracts objects toward the center of the Earth called?

- a) Gravity
- b) Friction
- c) Inertia
- d) Magnetism

Answer: a) Gravity

Which of the following is a greenhouse gas?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Helium

Answer: b) Carbon dioxide

What is the study of the Earth's physical structure and composition called?

- a) Geology

- b) Meteorology
  - c) Astronomy
  - d) Biology
- Answer: a) Geology

Which of the following is not a type of simple machine?

- a) Lever
- b) Pulley
- c) Wheel
- d) Inclined plane

Answer: c) Wheel

What is the process by which a solid turns directly into a gas without becoming a liquid called?

- a) Sublimation
- b) Vaporization
- c) Evaporation
- d) Condensation

Answer: a) Sublimation

What is the chemical symbol for the element sodium?

- a) Sn
- b) Na
- c) So
- d) Si

Answer: b) Na

What is the process by which light bends as it passes through different mediums called?

- a) Reflection
- b) Absorption
- c) Refraction
- d) Diffraction

Answer: c) Refraction

Which of the following is the smallest unit of life?

- a) Cell

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- b) Tissue
- c) Organ
- d) Organism

Answer: a) Cell

What is the SI unit of electric charge?

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

Answer: c) Coulomb

What is the process by which an organism produces offspring of the same species called?

- a) Reproduction
- b) Adaptation
- c) Mutation
- d) Evolution

Answer: a) Reproduction

Which scientist is known for his laws of gravity and motion?

- a) Isaac Newton
- b) Albert Einstein
- c) Galileo Galilei
- d) Nikola Tesla

Answer: a) Isaac Newton

What is the unit of measurement for electric current?

- a) Ampere
- b) Watt
- c) Volt
- d) Ohm

Answer: a) Ampere

What is the process by which a gas changes directly into a solid called?

- a) Sublimation
- b) Condensation

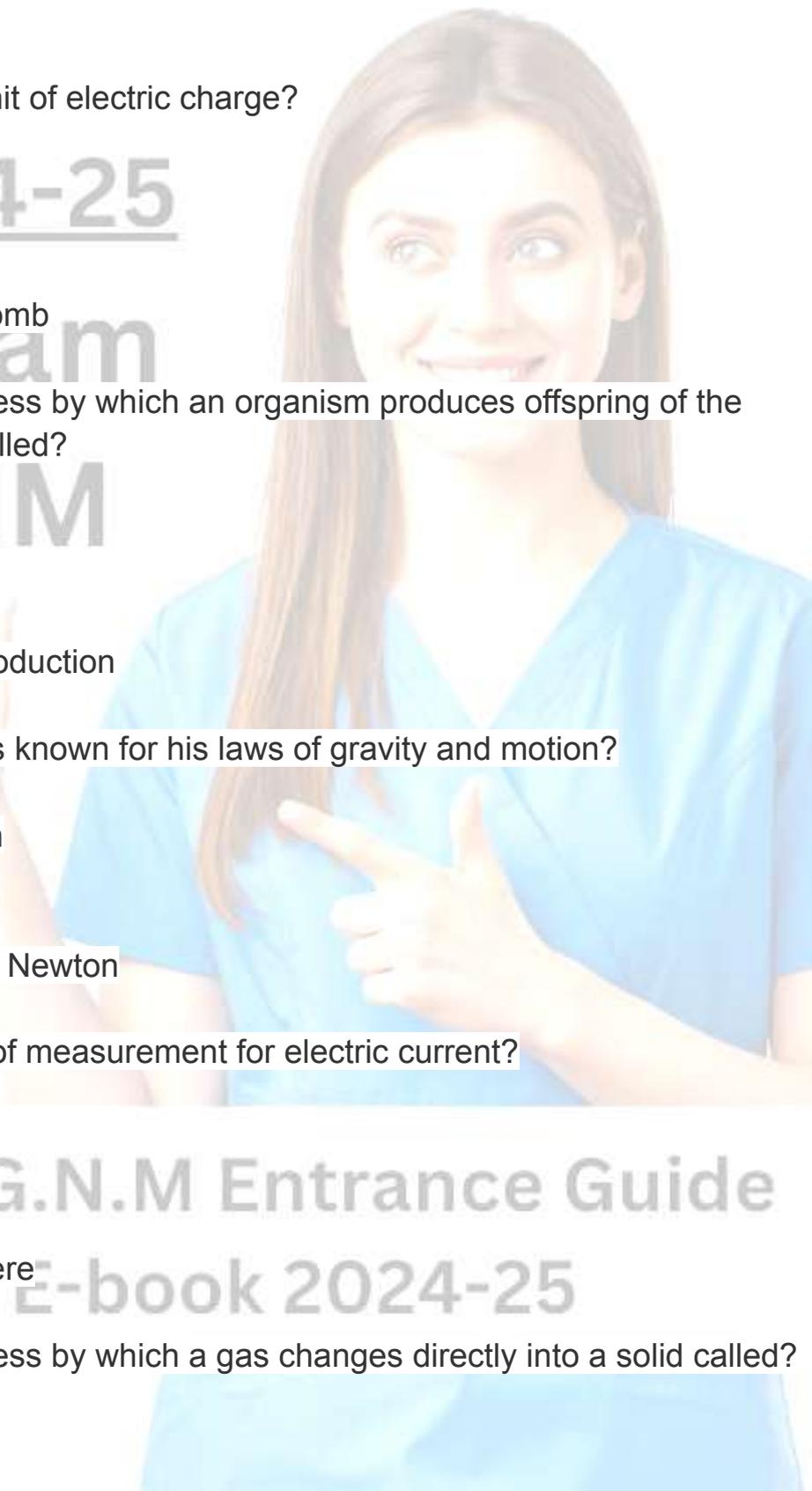
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c) Evaporation

d) Deposition

Answer: d) Deposition

What is the chemical symbol for the element hydrogen?

a) H

b) He

c) Ho

d) Hy

Answer: a) H

What is the process by which an organism undergoes change in response to its environment over successive generations called?

a) Evolution

b) Adaptation

c) Natural selection

d) Mutation

Answer: a) Evolution

d) Condensation

Answer: a) Transpiration

Which of the following is not a primary color of light?

a) Red

b) Blue

c) Yellow

d) Green

Answer: c) Yellow

What is the process by which an organism converts food into energy called?

a) Respiration

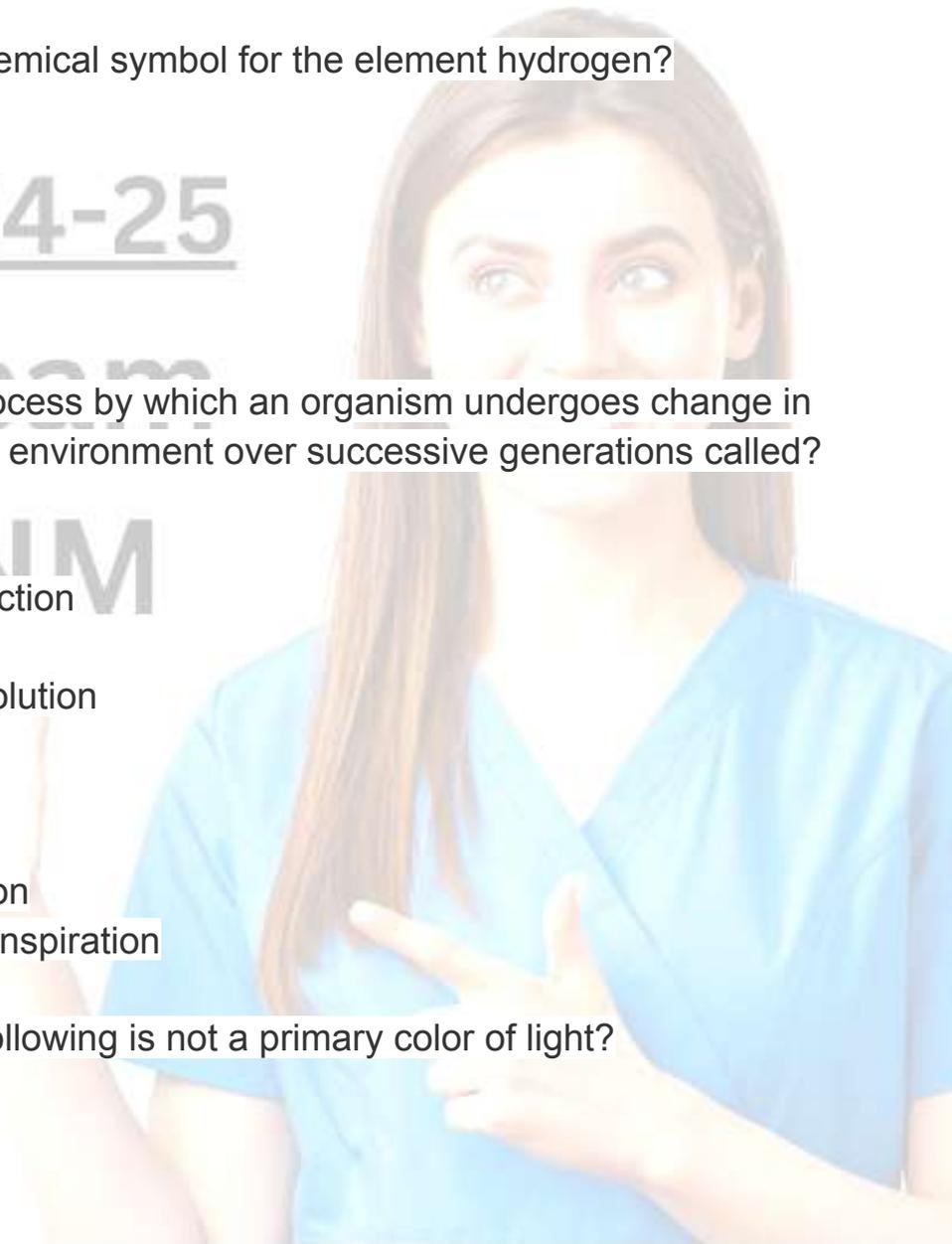
b) Photosynthesis

c) Digestion

d) Fermentation

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Answer: a) Respiration

Who proposed the theory of relativity and is known for the equation  $E=mc^2$ ?

- a) Albert Einstein
- b) Isaac Newton
- c) Marie Curie
- d) Galileo Galilei

Answer: a) Albert Einstein

What is the unit of measurement for electric potential difference?

- a) Volt
- b) Ampere
- c) Watt
- d) Ohm

Answer: a) Volt

What is the process by which a gas changes into a liquid called?

- a) Condensation
- b) Vaporization
- c) Sublimation
- d) Evaporation

Answer: a) Condensation

What is the chemical symbol for the element copper?

- a) C
- b) Co
- c) Cu
- d) Cr

Answer: c) Cu

What is the study of the universe beyond Earth's atmosphere called?

- a) Astronomy
- b) Geology
- c) Meteorology
- d) Biology

Answer: a) Astronomy

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What is the chemical symbol for the element nitrogen?

- a) N
- b) Ni
- c) Ne
- d) Na

Answer: a) N

What is the process by which an organism changes its physical or behavioral traits in response to its environment called?

- a) Evolution
- b) Adaptation
- c) Mutation
- d) Natural selection

Answer: b) Adaptation

What is the unit of measurement for frequency?

- a) Hertz
- b) Watt
- c) Ampere
- d) Kelvin

Answer: a) Hertz

Which of the following is not a type of renewable energy?

- a) Solar power
- b) Wind power
- c) Nuclear power
- d) Hydropower

Answer: c) Nuclear power

What is the process by which a solid changes directly into a gas called?

- a) Sublimation
- b) Evaporation
- c) Condensation
- d) Vaporization

Answer: a) Sublimation

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Who is credited with discovering penicillin, a widely used antibiotic?

- a) Alexander Fleming
- b) Marie Curie
- c) Louis Pasteur
- d) Jonas Salk

Answer: a) Alexander Fleming

What is the chemical symbol for the element helium?

- a) He
- b) H
- c) Ho
- d) Hee

Answer: a) He

What is the process by which light is bent or spread out as it passes through a medium called?

- a) Refraction
- b) Reflection
- c) Absorption
- d) Diffraction

Answer: a) Refraction

What is the unit of measurement for electric power?

- a) Watt
- b) Ampere
- c) Volt
- d) Ohm

Answer: a) Watt

What is the process by which an organism produces offspring that are similar to itself called?

- a) Reproduction
- b) Evolution
- c) Variation
- d) Heredity

Answer: a) Reproduction

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What is the chemical symbol for the element gold?

- a) Au
- b) Ag
- c) Go
- d) Gd

Answer: a) Au

What is the process by which plants convert carbon dioxide into oxygen called?

- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Combustion

Answer: a) Photosynthesis

Which of the following is the largest organ in the human body?

- a) Liver
- b) Skin
- c) Heart
- d) Brain

Answer: b) Skin

What is the unit of measurement for electric current?

- a) Ampere
- b) Volt
- c) Watt
- d) Ohm

Answer: a) Ampere

What is the process by which a liquid changes into a gas at a specific temperature called?

- a) Evaporation
- b) Condensation
- c) Boiling
- d) Vaporization

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Answer: c) Boiling

Who proposed the theory of general relativity, which describes the gravitational force?

- a) Albert Einstein
- b) Isaac Newton
- c) Marie Curie
- d) Nikola Tesla

Answer: a) Albert Einstein

What is the unit of measurement for electric resistance?

- a) Ohm
- b) Ampere
- c) Volt
- d) Watt

Answer: a) Ohm

What is the process by which a solid changes into a liquid called?

- a) Melting
- b) Freezing
- c) Sublimation
- d) Condensation

Answer: a) Melting

What is the chemical symbol for the element carbon?

- a) C
- b) Co
- c) Ca
- d) Cr

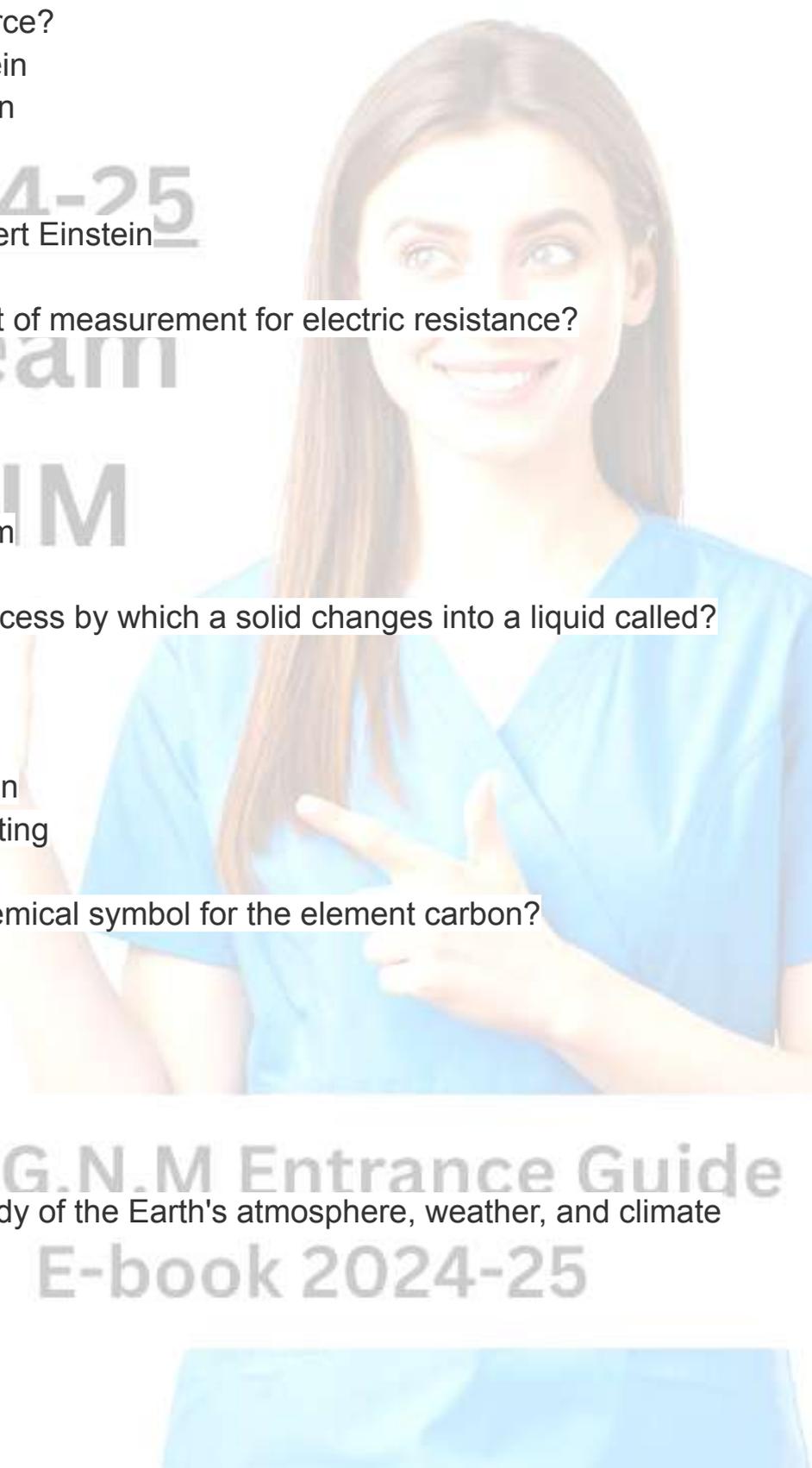
Answer: a) C

What is the study of the Earth's atmosphere, weather, and climate called?

- a) Meteorology
- b) Geology
- c) Biology
- d) Astronomy

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Answer: a) Meteorology

What is the chemical symbol for the element calcium?

- a) C
- b) Ca
- c) Cl
- d) Cu

Answer: b) Ca

What is the process by which an organism gradually changes over time in response to its environment called?

- a) Evolution
- b) Adaptation
- c) Mutation
- d) Natural selection

Answer: a) Evolution

What is the unit of measurement for electric potential difference?

- a) Volt
- b) Ampere
- c) Watt
- d) Ohm

Answer: a) Volt

Which of the following is not a primary color in the RGB color model?

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

Answer: d) Yellow

What is the process by which an organism breaks down food to obtain energy called?

- a) Respiration
- b) Photosynthesis
- c) Digestion
- d) Fermentation

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Answer: c) Digestion

Who developed the theory of general relativity, which revolutionized our understanding of gravity?

- a) Albert Einstein
- b) Isaac Newton
- c) Galileo Galilei
- d) Marie Curie

Answer: a) Albert Einstein

What is the chemical symbol for the element iron?

- a) I
- b) Fe
- c) Ir
- d) In

Answer: b) Fe

What is the process by which light changes direction as it passes through different mediums called?

- a) Refraction
- b) Reflection
- c) Absorption
- d) Diffraction

Answer: a) Refraction

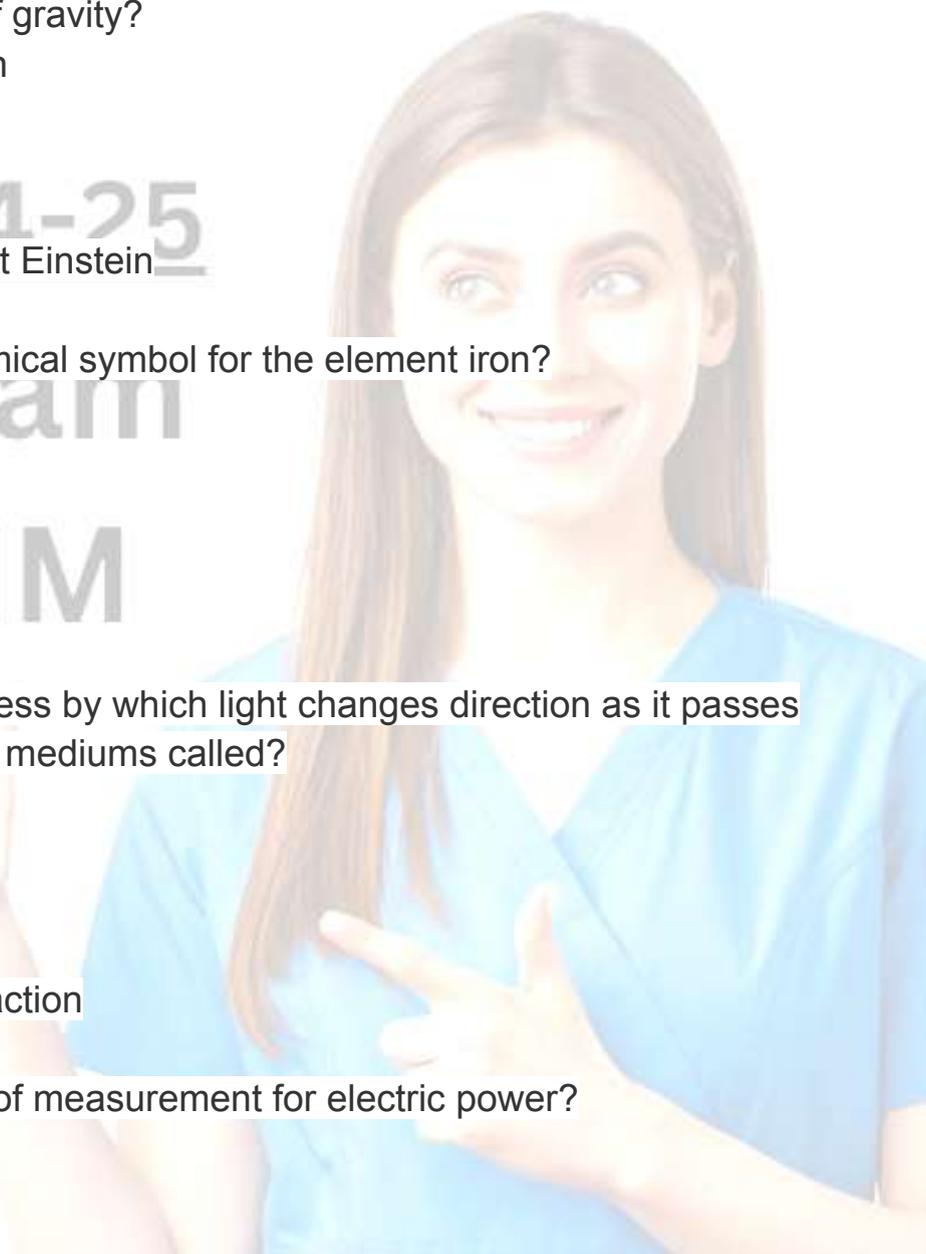
What is the unit of measurement for electric power?

- a) Watt
- b) Ampere
- c) Volt
- d) Ohm

Answer: a) Watt

What is the process by which a solid changes directly into a gas called?

- a) Sublimation
- b) Condensation
- c) Evaporation
- d) Vaporization



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Answer: a) Sublimation

What is the chemical symbol for the element oxygen?

- a) O
- b) Ox
- c) Oh
- d) Oz

Answer: a) O

What is the process by which plants convert sunlight into chemical energy called?

- a) Photosynthesis
- b) Respiration
- c) Transpiration
- d) Fermentation

Answer: a) Photosynthesis

Which of the following is the largest planet in our solar system?

- a) Earth
- b) Jupiter
- c) Saturn
- d) Mars

Answer: b) Jupiter

What is the unit of measurement for electric current?

- a) Ampere
- b) Volt
- c) Watt
- d) Ohm

Answer: a) Ampere

What is the process by which a liquid changes into a gas without boiling called?

- a) Evaporation
- b) Condensation
- c) Sublimation
- d) Vaporization

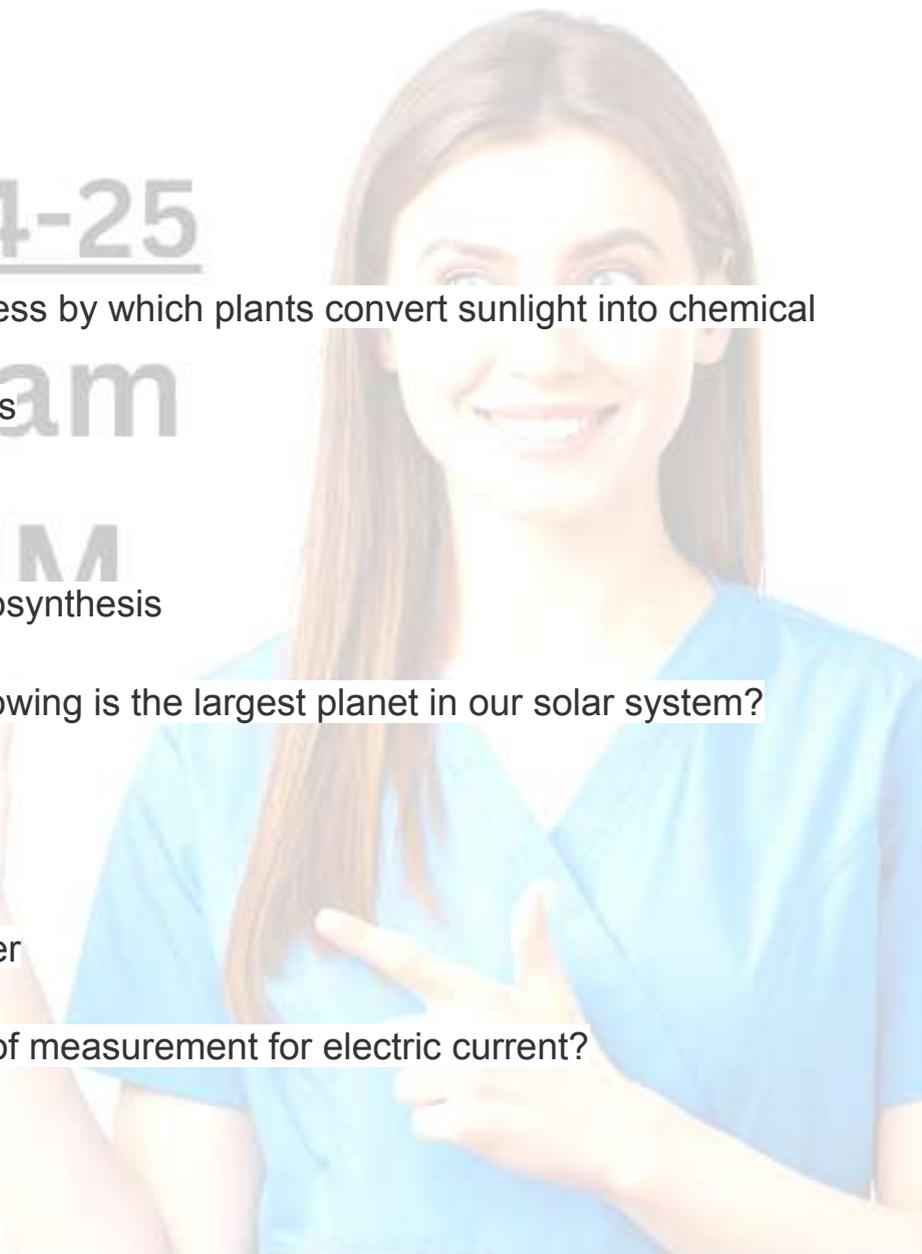
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Answer: a) Evaporation

Who is credited with discovering the theory of general relativity and the famous equation  $E=mc^2$ ?

- a) Albert Einstein
- b) Isaac Newton
- c) Galileo Galilei
- d) Marie Curie

Answer: a) Albert Einstein

What is the chemical symbol for the element potassium?

- a) Po
- b) Pt
- c) K
- d) Ka

Answer: c) K

What is the process by which light waves bounce off a surface called?

- a) Reflection
- b) Refraction
- c) Absorption
- d) Diffraction

Answer: a) Reflection

What is the unit of measurement for electric resistance?

- a) Ohm
- b) Ampere
- c) Volt
- d) Watt

Answer: a) Ohm

What is the study of the Earth's physical structure, composition, and history called?

- a) Geology
- b) Meteorology
- c) Astronomy
- d) Biology

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Answer: a) Geology

## Maths questions with Answer

Question: What is the value of  $\pi$  (pi) approximately?

- A) 3
- B) 3.14
- C) 4

Answer: B) 3.14

Question: What is the square root of 144?

- A) 12
- B) 16
- C) 10

Answer: A) 12

Question: If a triangle has angles measuring  $30^\circ$ ,  $60^\circ$ , and  $90^\circ$ , what type of triangle is it?

- A) Equilateral
- B) Isosceles
- C) Right-angled

Answer: C) Right-angled

Question: What is the value of  $2^5$ ?

- A) 16
- B) 32
- C) 64

Answer: B) 32

Question: What is the sum of interior angles of a triangle?

- A)  $90^\circ$
- B)  $180^\circ$
- C)  $360^\circ$

Answer: B)  $180^\circ$

Question: What is the perimeter of a square with side length 8 cm?

- A) 24 cm
- B) 32 cm
- C) 64 cm

Answer: B) 32 cm

Question: What is the value of  $\frac{3}{4}$  as a decimal?

- A) 0.25
- B) 0.5
- C) 0.75

Answer: C) 0.75

Question: What is the area of a rectangle with length 5 cm and width 10 cm?

- A)  $15 \text{ cm}^2$
- B)  $25 \text{ cm}^2$
- C)  $50 \text{ cm}^2$

Answer: C)  $50 \text{ cm}^2$

Question: What is the circumference of a circle with diameter 14 cm?

- A) 22 cm
- B) 44 cm
- C) 154 cm

Answer: B) 44 cm

Question: What is the value of  $\sin(90^\circ)$ ?

- A) 0
- B) 1
- C) 0.5

Answer: B) 1

Question: What is the value of  $\sqrt{49}$ ?

- A) 7
- B) 9
- C) 5

Answer: A) 7

Question: Which of the following is the smallest prime number?

- A) 1
- B) 2
- C) 3

Answer: B) 2

Question: What is the value of  $3 \times 3 \times 3 \times 3$ ?

- A) 9
- B) 12
- C) 81

Answer: C) 81

Question: If  $x = 4$ , what is the value of  $x^2$ ?

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

Answer: C) 16

Question: What is the sum of all angles in a quadrilateral?

- A)  $180^\circ$
- B)  $270^\circ$
- C)  $360^\circ$

Answer: C)  $360^\circ$

Question: What is the value of 0.6 as a fraction in simplest form?

- A)  $\frac{6}{10}$
- B)  $\frac{3}{5}$

- C)  $\frac{5}{6}$

Answer: B)  $\frac{3}{5}$

Question: What is the volume of a cube with side length 3 cm?

- A)  $9 \text{ cm}^3$
- B)  $18 \text{ cm}^3$
- C)  $27 \text{ cm}^3$

Answer: C)  $27 \text{ cm}^3$

Question: What is the value of  $\cos(0^\circ)$ ?

- A) 0
- B) 1
- C) 0.5

Answer: B) 1

Question: What is the value of  $10 \div 2 + 3 \times 5$ ?

- A) 15
- B) 17
- C) 25

Answer: A) 15

Question: If  $a = 2$  and  $b = 3$ , what is the value of  $a^2 + b^2$ ?

- A) 5
- B) 13
- C) 25

Answer: B) 13

Question: What is the value of  $4 \times 4$ ?

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

Answer: C) 16

Question: What is the value of  $25 \div 5$ ?

- A) 4
- B) 5
- C) 6

Answer: B) 5

Question: What is the sum of the interior angles of a pentagon?

- A)  $360^\circ$
- B)  $450^\circ$
- C)  $540^\circ$

Answer: B)  $540^\circ$

Question: If  $a = 3$  and  $b = 4$ , what is the value of  $a^2 + b^2$ ?

- A) 7
- B) 15
- C) 25

Answer: C) 25

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Question: What is the value of  $2 + 2 \times 3$ ?

- A) 6
- B) 8
- C) 10

Answer: B) 8

Question: What is the value of  $\tan(45^\circ)$ ?

- A) 0
- B) 1
- C)  $\sqrt{2}$

Answer: B) 1

Question: What is the area of a square with side length 6 cm?

- A)  $24 \text{ cm}^2$
- B)  $36 \text{ cm}^2$
- C)  $48 \text{ cm}^2$

Answer: B)  $36 \text{ cm}^2$

Question: What is the value of  $3^2 + 4^2$ ?

- A) 5
- B) 9
- C) 25

Answer: C) 25

Question: What is the value of  $\log_{10}(100)$ ?

- A) 1
- B) 2
- C) 3

Answer: B) 2

Question: What is the value of  $2/3$  as a decimal?

- A) 0.2
- B) 0.5
- C) 0.66

Answer: C) 0.66

Question: What is the area of a rectangle with length 8 cm and width 5 cm?

- A)  $13 \text{ cm}^2$
- B)  $30 \text{ cm}^2$
- C)  $40 \text{ cm}^2$

Answer: B)  $40 \text{ cm}^2$

Question: What is the value of  $\sin(30^\circ)$ ?

- A) 0
- B) 0.5
- C) 1

Answer: B) 0.5

Question: What is the value of  $7 \times 7$ ?

- A) 14

- B) 21
- C) 49

Answer: C) 49

Question: What is the value of  $8 \div 4$ ?

- A) 2
- B) 4
- C) 6

Answer: A) 2

Question: What is the sum of the interior angles of a hexagon?

- A)  $360^\circ$
- B)  $450^\circ$
- C)  $720^\circ$

Answer: C)  $720^\circ$

Question: If  $a = 5$  and  $b = 12$ , what is the value of  $a^2 - b^2$ ?

- A) -119
- B) -1195
- C) 1195

Answer: A) -119

Question: What is the value of  $4 + 4 \times 4$ ?

- A) 20
- B) 32
- C) 64

Answer: B) 32

Question: What is the value of  $\cos(60^\circ)$ ?

- A) 0
- B) 0.5
- C) 1

Answer: B) 0.5

Question: What is the area of a circle with radius 7 cm?

- A)  $22 \text{ cm}^2$
- B)  $44 \text{ cm}^2$
- C)  $154 \text{ cm}^2$

Answer: C)  $154 \text{ cm}^2$

Question: What is the value of  $5^2 + 6^2$ ?

- A) 11
- B) 31
- C) 61

Answer: B) 31

Question: What is the value of  $7 \times 9$ ?

- A) 56
- B) 63
- C) 72

Answer: B) 63

Question: What is the square root of 100?

- A) 9
- B) 10
- C) 11

Answer: B) 10

Question: Which of the following is a prime number?

- A) 12
- B) 13
- C) 14

Answer: B) 13

Question: What is the value of  $3 \times 3 \times 3$ ?

- A) 9
- B) 18
- C) 27

Answer: C) 27

Question: What is the sum of angles in a triangle?

- A)  $90^\circ$
- B)  $180^\circ$
- C)  $270^\circ$

Answer: B)  $180^\circ$

Question: What is the value of 0.5 as a fraction in simplest form?

- A)  $1/2$
- B)  $2/5$
- C)  $5/10$

Answer: A)  $1/2$

Question: What is the value of  $6 \div 2 + 2 \times 5$ ?

- A) 8
- B) 13
- C) 16

Answer: A) 8

Question: What is the area of a rectangle with length 12 cm and width 8 cm?

- A)  $20 \text{ cm}^2$
- B)  $48 \text{ cm}^2$
- C)  $96 \text{ cm}^2$

Answer: C)  $96 \text{ cm}^2$

Question: What is the value of  $\tan(60^\circ)$ ?

- A)  $\sqrt{3}$
- B) 1
- C)  $1/\sqrt{3}$

Answer: A)  $\sqrt{3}$

Question: What is the volume of a cube with side length 5 cm?

---

- A)  $25 \text{ cm}^3$
- B)  $125 \text{ cm}^3$
- C)  $225 \text{ cm}^3$

Answer: A)  $25 \text{ cm}^3$

Question: What is the value of  $\log_{10}(1000)$ ?

- A) 2
- B) 3
- C) 4

Answer: B) 3

Question: What is the value of 0.75 as a percentage?

- A) 7.5%
- B) 75%
- C) 750%

Answer: B) 75%

Question: What is the perimeter of a square with side length 9 cm?

- A) 27 cm
- B) 36 cm
- C) 45 cm

Answer: B) 36 cm

Question: What is the value of  $\sin(45^\circ)$ ?

- A) 0
- B) 0.5
- C)  $\sqrt{2}/2$

Answer: C)  $\sqrt{2}/2$

Question: What is the value of  $4^2 - 3^2$ ?

- A) 1
- B) 7
- C) 16

Answer: B) 7

Question: What is the value of  $\cos(30^\circ)$ ?

- A) 0
- B)  $\sqrt{3}/2$
- C)  $1/2$

Answer: C)  $1/2$

Question: What is the value of  $9 \div 3 \times 5$ ?

- A) 12
- B) 15
- C) 25

Answer: B) 15

Question: What is the sum of angles in a quadrilateral?

- A)  $360^\circ$
- B)  $450^\circ$

- C)  $540^\circ$

Answer: A)  $360^\circ$

Question: What is the value of  $7 + 7 \times 7$ ?

- A) 49
- B) 56
- C) 63

Answer: C) 63

Question: What is the value of  $\sin(60^\circ)$ ?

- A) 0
- B)  $1/2$
- C)  $\sqrt{3}/2$

Answer: C)  $\sqrt{3}/2$

Question: What is the value of  $5 \times 6$ ?

- A) 30
- B) 35
- C) 40

Answer: A) 30

Question: What is the square root of 81?

- A) 9
- B) 8
- C) 7

Answer: A) 9

Question: Which of the following is a composite number?

- A) 11
- B) 12
- C) 13

Answer: B) 12

Question: What is the value of  $2 \times 2 \times 2 \times 2$ ?

- A) 8
- B) 16
- C) 32

Answer: C) 32

Question: What is the sum of the angles in a parallelogram?

- A)  $180^\circ$
- B)  $360^\circ$
- C)  $540^\circ$

Answer: B)  $360^\circ$

Question: What is the value of 0.25 as a fraction in simplest form?

- A)  $1/2$
- B)  $1/4$
- C)  $2/5$

Answer: B)  $1/4$

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Question: What is the value of  $12 \div 3 + 4 \times 2$ ?

- A) 10
- B) 14
- C) 16

Answer: B) 14

Question: What is the area of a rectangle with length 10 cm and width 6 cm?

- A)  $36 \text{ cm}^2$
- B)  $48 \text{ cm}^2$
- C)  $60 \text{ cm}^2$

Answer: C)  $60 \text{ cm}^2$

Question: What is the value of  $\tan(30^\circ)$ ?

- A) 1
- B)  $\sqrt{3}$
- C)  $1/\sqrt{3}$

Answer: C)  $1/\sqrt{3}$

Question: What is the volume of a cube with side length 4 cm?

- A)  $16 \text{ cm}^3$
- B)  $24 \text{ cm}^3$
- C)  $32 \text{ cm}^3$

Answer: A)  $16 \text{ cm}^3$

Question: What is the value of  $\log_{10}(10000)$ ?

- A) 2
- B) 3
- C) 4

Answer: C) 4

Question: What is the value of 0.4 as a percentage?

- A) 4%
- B) 40%
- C) 400%

Answer: B) 40%

Question: What is the perimeter of a square with side length 7 cm?

- A) 21 cm
- B) 28 cm
- C) 35 cm

Answer: B) 28 cm

Question: What is the value of  $\sin(60^\circ)$ ?

- A) 0
- B)  $\sqrt{3}/2$
- C)  $1/2$

Answer: B)  $\sqrt{3}/2$

Question: What is the value of  $5^2 - 3^2$ ?

- A) 16

- B) 22
- C) 34

Answer: A) 16

Question: What is the value of  $\cos(45^\circ)$ ?

- A) 0
- B)  $1/\sqrt{2}$
- C)  $\sqrt{2}/2$

Answer: B)  $1/\sqrt{2}$

Question: What is the value of  $12 \div 2 \times 4$ ?

- A) 12
- B) 24
- C) 48

Answer: B) 24

Question: What is the sum of the angles in a rectangle?

- A)  $180^\circ$
- B)  $270^\circ$
- C)  $360^\circ$

Answer: C)  $360^\circ$

Question: What is the value of  $8 + 8 \times 8$ ?

- A) 64
- B) 80
- C) 96

Answer: C) 96

Question: What is the value of  $\sin(45^\circ)$ ?

- A) 0
- B)  $1/\sqrt{2}$
- C)  $\sqrt{2}/2$

Answer: B)  $1/\sqrt{2}$

Question: What is the value of  $9 \times 7$ ?

- A) 56
- B) 63
- C) 72

Answer: B) 63

Question: What is the square root of 121?

- A) 10
- B) 11
- C) 12

Answer: B) 11

Question: Which of the following is a prime number?

- A) 15
- B) 17
- C) 18

Answer: B) 17

Question: What is the value of  $2 \times 2 \times 2 \times 3$ ?

- A) 8
- B) 12
- C) 24

Answer: C) 24

Question: What is the sum of the angles in a quadrilateral?

- A)  $180^\circ$
- B)  $360^\circ$
- C)  $540^\circ$

Answer: B)  $360^\circ$

Question: What is the value of 0.2 as a fraction in simplest form?

- A)  $1/2$
- B)  $1/5$
- C)  $2/10$

Answer: B)  $1/5$

Question: What is the value of  $8 \div 2 + 4 \times 3$ ?

- A) 16
- B) 20
- C) 24

Answer: B) 20

Question: What is the area of a rectangle with length 15 cm and width 9 cm?

- A)  $126 \text{ cm}^2$
- B)  $135 \text{ cm}^2$
- C)  $144 \text{ cm}^2$

Answer: B)  $135 \text{ cm}^2$

Question: What is the value of  $\tan(45^\circ)$ ?

- A) 0
- B) 1
- C)  $\sqrt{2}$

Answer: B) 1

Question: What is the volume of a cube with side length 3 cm?

- A)  $9 \text{ cm}^3$
- B)  $18 \text{ cm}^3$
- C)  $27 \text{ cm}^3$

Answer: A)  $9 \text{ cm}^3$

Question: What is the value of  $\log_{10}(100000)$ ?

- A) 4
- B) 5
- C) 6

Answer: B) 5

Question: What is the value of 0.75 as a percentage?

- A) 7.5%
- B) 75%
- C) 750%

Answer: B) 75%

Question: What is the perimeter of a square with side length 6 cm?

- A) 18 cm
- B) 24 cm
- C) 36 cm

Answer: B) 24 cm

Question: What is the value of  $\sin(60^\circ)$ ?

- A) 0
- B)  $1/2$
- C)  $\sqrt{3}/2$

Answer: C)  $\sqrt{3}/2$

Question: What is the value of  $6^2 - 4^2$ ?

- A) 20
- B) 32
- C) 36

Answer: A) 20

Question: What is the value of  $\cos(60^\circ)$ ?

- A) 0
- B)  $1/2$
- C)  $\sqrt{3}/2$

Answer: B)  $1/2$

Question: What is the value of  $10 \div 2 \times 6$ ?

- A) 10
- B) 15
- C) 30

Answer: C) 30

Question: What is the sum of angles in a rectangle?

- A)  $180^\circ$
- B)  $270^\circ$
- C)  $360^\circ$

Answer: C)  $360^\circ$

Question: What is the value of  $7 + 7 \times 7$ ?

- A) 56
- B) 63
- C) 70

Answer: C) 70

1. Question: What is the value of  $6 \times 9$ ?

- A) 45
- B) 50

- C) 54
  - Answer: C) 54
2. Question: What is the square root of 169?
- A) 11
  - B) 13
  - C) 15
  - Answer: B) 13
3. Question: Which of the following is a prime number?
- A) 28
  - B) 29
  - C) 30
  - Answer: B) 29
4. Question: What is the value of  $2 \times 3 \times 4 \times 5$ ?
- A) 40
  - B) 120
  - C) 240
  - Answer: B) 120
5. Question: What is the sum of angles in a trapezium?
- A)  $180^\circ$
  - B)  $360^\circ$
  - C) Variable
  - Answer: C) Variable
6. Question: What is the value of 0.4 as a fraction in simplest form?
- A)  $\frac{2}{5}$
  - B)  $\frac{4}{10}$
  - C)  $\frac{1}{4}$
  - Answer: A)  $\frac{2}{5}$
7. Question: What is the value of  $18 \div 3 + 2 \times 5$ ?
- A) 15
  - B) 20
  - C) 25
  - Answer: B) 20
8. Question: What is the area of a rectangle with length 25 cm and width 6 cm?
- A)  $125 \text{ cm}^2$
  - B)  $150 \text{ cm}^2$
  - C)  $200 \text{ cm}^2$
  - Answer: A)  $125 \text{ cm}^2$
9. Question: What is the value of  $\tan(45^\circ)$ ?
- A) 0
  - B) 1
  - C)  $\sqrt{2}$
  - Answer: B) 1

10. Question: What is the volume of a cube with side length 3 cm?

- A)  $6 \text{ cm}^3$
- B)  $9 \text{ cm}^3$
- C)  $27 \text{ cm}^3$
- Answer: C)  $27 \text{ cm}^3$

11. Question: What is the value of  $\log_{10}(1000000)$ ?

- A) 4
- B) 6
- C) 7
- Answer: C) 7

12. Question: What is the value of 0.8 as a percentage?

- A) 8%
- B) 80%
- C) 800%
- Answer: B) 80%

13. Question: What is the perimeter of a square with side length 10 cm?

- A) 20 cm
- B) 30 cm
- C) 40 cm
- Answer: C) 40 cm

14. Question: What is the value of  $\sin(30^\circ)$ ?

- A) 0
- B)  $1/2$
- C)  $\sqrt{3}/2$
- Answer: B)  $1/2$

15. Question: What is the value of  $7^2 - 5^2$ ?

- A) 12
- B) 20
- C) 24
- Answer: B) 20

16. Question: What is the value of  $\cos(60^\circ)$ ?

- A) 0
- B)  $1/2$
- C)  $\sqrt{3}/2$
- Answer: C)  $\sqrt{3}/2$

17. Question: What is the value of  $15 \div 3 \times 6$ ?

- A) 20
- B) 25
- C) 30
- Answer: C) 30

18. Question: What is the sum of angles in a rhombus?

- A)  $180^\circ$
-

- B)  $360^\circ$
- C) Variable
- Answer: B)  $360^\circ$

19. Question: What is the value of  $8 + 8 \times 8$ ?

- A) 48
- B) 56
- C) 64
- Answer: C) 64

20. Question: What is the value of  $\sin(45^\circ)$ ?

- A) 0
- B)  $1/\sqrt{2}$
- C)  $\sqrt{2}/2$
- Answer: B)  $1/\sqrt{2}$

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