

# MANIA QUIZ

# SCIENCE

## SYLLABUS



**1. QUESTION: Which organelle is known as the "powerhouse of the cell"?**

- a) Ribosome                      b) Nucleus                      c) Mitochondria                      d) Endoplasmic Reticulum

**2. QUESTION: What is the primary function of red blood cells?**

- a) Transport oxygen                      b) Fight infections                      c) Produce energy                      d) Digest food

**2. QUESTION: Which of the following is a non-vascular plant?**

- a) Moss                      b) Fern                      c) Oak tree                      d) Sunflower

**4. QUESTION: What is the process by which green plants make their food?**

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

**5. QUESTION: Which vitamin is essential for blood clotting?**

- a) Vitamin A                      b) Vitamin K                      c) Vitamin C                      d) Vitamin D

**6. QUESTION: In which part of the digestive system does most nutrient absorption occur?**

- a) Stomach                      b) Small intestine                      c) Large intestine                      d) Esophagus

**7. QUESTION: Which gas do plants release during photosynthesis?**

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

**8. QUESTION: What type of joint is present in the human knee?**

- a) Ball-and-socket                      b) Hinge                      c) Pivot                      d) Gliding

**9. QUESTION: Which system in the human body controls and coordinates all functions?**

- a) Respiratory system                      b) Nervous system  
c) Digestive system                      d) Circulatory system

**10. QUESTION: What is the term for the breaking down of food into simpler substances?**

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

**11. QUESTION: What is the chemical formula for water?**

- a) CO<sub>2</sub>                      b) HCl                      c) H<sub>2</sub>O                      d) O<sub>2</sub>

**12. QUESTION: Which of the following is an example of a physical change?**

- a) Burning of paper                      b) Melting of ice                      c) Rusting of iron                      d) Digestion of food

**13. QUESTION: What type of bond is present in NaCl (table salt)?**

- a) Covalent                      b) Ionic                      c) Metallic                      d) Hydrogen

**14. QUESTION: Which gas is used in balloons to make them float?**

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

**15. QUESTION: What is the chemical symbol for gold?**

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



**16. QUESTION: Which of the following is an acid?**

- a) HCl                      b) NaOH                      c) KCl                      d) H<sub>2</sub>O

**17. QUESTION: What is the pH of a neutral solution?**

- a) 7                      b) 1                      c) 10                      d) 14

**18. QUESTION: Which of these substances is the best conductor of electricity?**

- a) Rubber                      b) Copper                      c) Wood                      d) Plastic

**19. QUESTION: What is the main gas responsible for global warming?**

- a) Carbon dioxide (CO<sub>2</sub>)      b) Oxygen (O<sub>2</sub>)      c) Hydrogen (H<sub>2</sub>)      d) Nitrogen (N<sub>2</sub>)

**20. QUESTION: Which element is most abundant in the Earth's crust?**

- a) Iron                      b) Oxygen                      c) Carbon                      d) Silicon

**21. QUESTION: What is the SI unit of force?**

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

**22. QUESTION: What type of energy is stored in a stretched rubber band?**

- a) Kinetic energy      b) Potential energy      c) Thermal energy      d) Chemical energy

**23. QUESTION: What property of a sound wave determines its pitch?**

- a) Amplitude                      b) Frequency                      c) Wavelength                      d) Speed

**24. QUESTION: What is the speed of light in a vacuum?**

- a) 3,000 km/s                      b) 300,000 km/s                      c) 30,000 km/s                      d) 3,000,000 km/s

**25. QUESTION: Which type of mirror is used in vehicle headlights?**

- a) Plane                      b) Concave                      c) Convex                      d) Cylindrical

**26. QUESTION: What is the acceleration due to gravity on Earth?**

- a) 9.8 m/s<sup>2</sup>                      b) 8.9 m/s<sup>2</sup>                      c) 10.5 m/s<sup>2</sup>                      d) 6.7 m/s<sup>2</sup>

**27. QUESTION: Which law states that "For every action, there is an equal and opposite reaction"?**

- a) Newton's Third Law                      b) Newton's First Law  
c) Newton's Second Law                      d) Law of Conservation of Energy

**28. QUESTION: What is the unit of electrical resistance?**

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

**29. QUESTION: What is the primary source of energy for the Earth?**

- a) Wind                      b) Water                      c) Sun                      d) Geothermal

**30. QUESTION: Which of the following is NOT an example of renewable energy?**

- a) Solar energy      b) Wind energy                      c) Coal                      d) Hydropower

**31. QUESTION: What causes day and night?**

- a) Revolution of Earth      **b) Rotation of Earth**      c) Tilt of Earth      d) Distance from the Sun

**32. QUESTION: Which planet is known as the "Red Planet"?**

- a) Venus      **b) Mars**      c) Jupiter      d) Saturn

**33. QUESTION: What is the main cause of tides on Earth?**

- a) Sun      b) Wind      **c) Moon's gravity**      d) Earth's rotation

**34. QUESTION: What is the largest planet in the Solar System?**

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

**35. QUESTION: Which layer of Earth's atmosphere contains the ozone layer?**

- a) Stratosphere**      b) Troposphere      c) Mesosphere      d) Thermosphere

**36. QUESTION: What is a galaxy?**

- a) A cluster of asteroids      **b) A massive collection of stars, gas, and dust**  
c) A single star system      d) A type of nebula

**37. QUESTION: What is the core of the Sun made of?**

- a) Oxygen      **b) Hydrogen and helium**      c) Carbon      d) Iron

**38. QUESTION: What is the Earth's outermost layer called?**

- a) Mantle      b) Core      **c) Crust**      d) Lithosphere

**39. QUESTION: What is the full form of NASA?**

- a) National Aeronautics and Space Administration**      b) National Astronomical and Space Agency  
c) North American Space Academy      d) None of the above

**40. QUESTION: Which planet has the most moons?**

- a) Earth      b) Mars      **c) Jupiter**      d) Venus

**41. QUESTION: Which of the following is the basic structural unit of life?**

- a) Atom      **b) Cell**      c) Tissue      d) Organ

**42. QUESTION: Which part of the plant transports water from roots to leaves?**

- a) Phloem      **b) Xylem**      c) Stomata      d) Chloroplast

**43. QUESTION: What is the scientific study of fungi called?**

- a) Botany      **b) Mycology**      c) Zoology      d) Microbiology

**44. QUESTION: What is the process by which living organisms produce offspring?**

- a) Photosynthesis      **b) Reproduction**      c) Digestion      d) Circulation

**45. QUESTION: Which blood vessels carry blood away from the heart?**

- a) Veins      b) Capillaries      **c) Arteries**      d) Lymph nodes

**46. QUESTION: What is the largest organ in the human body?**

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

**47. QUESTION: Which type of teeth are used for grinding food?**

- a) Molars                      b) Canines                      c) Incisors                      d) Premolars

**48. QUESTION: Which gas do human's exhale?**

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

**49. QUESTION: Which of these is a bacterial disease?**

- a) Tuberculosis              b) Malaria                      c) Influenza                      d) Dengue

**50. QUESTION: Which hormone regulates blood sugar levels?**

- a) Thyroxine                      b) Insulin                      c) Estrogen                      d) Adrenaline

**51. QUESTION: Which metal is the best conductor of electricity?**

- a) Silver                      b) Copper                      c) Aluminum                      d) Gold

**52. QUESTION: Which gas is commonly known as "laughing gas"?**

- a) Nitrous oxide ( $\text{N}_2\text{O}$ )      b) Carbon monoxide ( $\text{CO}$ )      c) Oxygen ( $\text{O}_2$ )                      d) Methane ( $\text{CH}_4$ )

**53. QUESTION: What is the main component of natural gas?**

- a) Propane                      b) Butane                      c) Methane                      d) Ethanol

**54. QUESTION: Which non-metal is a good conductor of electricity?**

- a) Graphite                      b) Sulfur                      c) Phosphorus                      d) Carbon dioxide

**55. QUESTION: What type of reaction releases heat energy?**

- a) Exothermic                      b) Endothermic                      c) Neutralization                      d) Electrolysis

**56. QUESTION: What is the common name for sodium bicarbonate?**

- a) Table salt                      b) Baking soda                      c) Bleaching powder                      d) Vinegar

**57. QUESTION: Which acid is found in lemons?**

- a) Sulfuric acid                      b) Citric acid                      c) Acetic acid                      d) Hydrochloric acid

**58. QUESTION: What is the chemical symbol for lead?**

- a) db                      b) Pb                      c) Ld                      d) Pd

**59. QUESTION: What is the atomic number of carbons?**

- a) 6                      b) 6                      c) 8                      d) 12

**60. QUESTION: What is a mixture of metals called?**

- a) Compound                      b) Alloy                      c) Element                      d) Isotope

**61. QUESTION: What is the SI unit of power?**

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

**62. QUESTION: What force pulls objects toward the center of the Earth?**

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

**63. QUESTION: What color of light has the highest energy?**

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

**64. QUESTION: What type of energy is possessed by a moving object?**

- a) Kinetic energy      b) Potential energy      c) Chemical energy      d) Thermal energy

**65. QUESTION: What is the unit of frequency?**

- a) Joule                      b) Newton                      c) Hertz                      d) Volt

**66. QUESTION: Which device is used to measure electric current?**

- a) Voltmeter                      b) Ammeter                      c) Thermometer                      d) Barometer

**67. QUESTION: What is the effect of friction?**

- a) Slows down motion                      b) Speeds up objects  
c) Converts heat into motion                      d) Increases acceleration

**68. QUESTION: Which type of mirror always produces an upright, smaller image?**

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

**69. QUESTION: What is the main function of a transformer in an electric circuit?**

- a) Measure voltage                      b) Change voltage levels  
c) Store electric charge                      d) Generate electricity

**70. QUESTION: Which type of lens is used to correct nearsightedness?**

- a) Concave lens      b) Convex lens                      c) Plane lens                      d) Cylindrical lens

**71. QUESTION: What is the process of water changing from gas to liquid called?**

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

**72. QUESTION: What is the name of the boundary between Earth's crust and mantle?**

- a) Mantle line                      b) Mohorovicic discontinuity (Moho)      c) Core boundary      d) Lithosphere

**73. QUESTION: What is the brightest planet in the night sky?**

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

**74. QUESTION: What is the main gas in Earth's atmosphere?**

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

**75. QUESTION: What is the name of the largest volcano in the Solar System?**

- a) Mauna Loa                      b) Mount Everest                      c) Olympus Mons                      d) Vesuvius

**76. QUESTION: What is the coldest planet in the Solar System?**

- a) Neptune                      b) Uranus                      c) Pluto                      d) Jupiter



**77. QUESTION: What is the source of geothermal energy?**

- a) The Sun                      b) Heat from Earth's interior                      c) Ocean currents                      d) Wind

**78. QUESTION: Which gas makes up most of the Sun?**

- a) Hydrogen                      b) Oxygen                      c) Helium                      d) Carbon

**79. QUESTION: What is the Earth's innermost layer called?**

- a) Crust                      b) Mantle                      c) Core                      d) Lithosphere

**80. QUESTION: What natural phenomenon is measured using the Richter scale?**

- a) Earthquakes                      b) Tornadoes                      c) Rainfall                      d) Temperature

**81. QUESTION: What is the control center of the cell?**

- a) Mitochondria                      b) Ribosome                      c) Nucleus                      d) Golgi body

**82. QUESTION: What is the function of chlorophyll in plants?**

- a) Transport water                      b) Absorb sunlight                      c) Store food                      d) Protect from insects

**83. QUESTION: Which of these is a vertebrate?**

- a) Earthworm                      b) Frog                      c) Octopus                      d) Snail

**84. QUESTION: What is the largest bone in the human body?**

- a) Tibia                      b) Humerus                      c) Femur                      d) Radius

**85. QUESTION: Which part of the brain controls balance and coordination?**

- a) Cerebrum                      b) Cerebellum                      c) Medulla                      d) Hypothalamus

**86. QUESTION: Which of the following is a plant hormone?**

- a) Auxin                      b) Insulin                      c) Adrenaline                      d) Hemoglobin

**87. QUESTION: What is the term for animals that eat both plants and animals?**

- a) Herbivore                      b) Carnivore                      c) Omnivore                      d) Detritivore

**88. QUESTION: What blood type is known as the universal donor?**

- a) A                      b) O negative                      c) AB                      d) B

**89. QUESTION: Which part of the plant is responsible for reproduction?**

- a) Root                      b) Stem                      c) Flower                      d) Leaf

**90. QUESTION: Which vitamin is produced in the skin when exposed to sunlight?**

- a) Vitamin D                      b) Vitamin A                      c) Vitamin C                      d) Vitamin B12

**91. QUESTION: Which is the lightest element?**

- a) Oxygen                      b) Hydrogen                      c) Carbon                      d) Nitrogen

**92. QUESTION: What is the chemical name for common salt?**

- a) Calcium chloride
- b) Sodium chloride
- c) Potassium iodide
- d) Sodium bicarbonate

**93. QUESTION: What happens when a metal reacts with acid?**

- a) Carbon dioxide is released
- b) Hydrogen gas is released
- c) Oxygen is released
- d) No reaction occurs

**94. QUESTION: What is the chemical formula of sulfuric acid?**

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

**95. QUESTION: Which of the following is NOT a noble gas?**

- a) Neon
- b) Argon
- c) Chlorine
- d) Helium

**96. QUESTION: What is dry ice?**

- a) Solid carbon dioxide
- b) Frozen nitrogen
- c) Ice with salt
- d) Frozen oxygen

**97. QUESTION: Which metal is liquid at room temperature?**

- a) Mercury
- b) Iron
- c) Gold
- d) Aluminum

**98. QUESTION: What is the main component of glass?**

- a) Quartz
- b) Silica
- c) Limestone
- d) Plastic

**99. QUESTION: Which type of chemical bond involves the sharing of electrons?**

- a) Covalent bond
- b) Ionic bond
- c) Metallic bond
- d) Hydrogen bond

**100. QUESTION: What is the pH of pure water?**

- a) 7
- b) 1
- c) 10
- d) 14

**101. QUESTION: What is the SI unit of temperature?**

- a) Fahrenheit
- b) Celsius
- c) Kelvin
- d) Joule

**102. QUESTION: What type of energy is stored in food?**

- a) Kinetic energy
- b) Chemical energy
- c) Thermal energy
- d) Electrical energy

**103. QUESTION: What is the acceleration due to gravity on the Moon?**

- a)  $1.6 \text{ m/s}^2$
- b)  $9.8 \text{ m/s}^2$
- c)  $4.5 \text{ m/s}^2$
- d)  $10.2 \text{ m/s}^2$

**104. QUESTION: Which instrument is used to measure air pressure?**

- a) Thermometer
- b) Barometer
- c) Anemometer
- d) Hydrometer

**105. QUESTION: What is the SI unit of work?**

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

**106. QUESTION: What is the main function of a fuse in an electrical circuit?**

- a) Store electricity
- b) Prevent overloading
- c) Convert AC to DC
- d) Generate electricity



**107. QUESTION: What type of energy does a stretched rubber band have?**

- a) Potential energy      b) Kinetic energy      c) Nuclear energy      d) Chemical energy

**108. QUESTION: What happens to a liquid when it is heated?**

- a) It contracts      b) It expands      c) It becomes heavier      d) It becomes a solid

**109. QUESTION: What type of wave is sound?**

- a) Longitudinal wave      b) Transverse wave      c) Electromagnetic wave      d) Radio wave

**110. QUESTION: What is the bending of light as it passes through different materials called?**

- a) Refraction      b) Reflection      c) Diffusion      d) Dispersion

**111. QUESTION: What is the largest ocean on Earth?**

- a) Atlantic Ocean      b) Pacific Ocean      c) Indian Ocean      d) Arctic Ocean

**112. QUESTION: What causes the Earth's seasons?**

- a) Distance from the Sun      b) Earth's rotation      c) Earth's tilt      d) Moon's gravity

**113. QUESTION: What is the process of breaking rocks into smaller pieces called?**

- a) Weathering      b) Erosion      c) Sedimentation      d) Fossilization

**114. QUESTION: What is a comet mostly made of?**

- a) Rock      b) Ice and dust      c) Lava      d) Metal

**115. QUESTION: What do we call a scientist who studies earthquakes?**

- a) Meteorologist      b) Seismologist      c) Geologist      d) Astronomer

**116. QUESTION: What is the name of our galaxy?**

- a) Andromeda      b) Milky Way      c) Orion      d) Nebula

**117. QUESTION: What layer of the atmosphere contains the ozone layer?**

- a) Troposphere      b) Stratosphere      c) Mesosphere      d) Thermosphere

**118. QUESTION: What is the hottest planet in the Solar System?**

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

**119. QUESTION: What type of rock is formed from cooling lava?**

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

**120. QUESTION: What is the shape of the Earth?**

- a) Oblate spheroid      b) Perfect sphere      c) Cylinder      d) Cone

**121. QUESTION: Which of the following carries oxygen in the blood?**

- a) White blood cells      b) Platelets      c) Red blood cells      d) Plasma

**122. QUESTION: What is the process by which plants lose water through their leaves?**

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

**123. QUESTION: Which part of the cell is responsible for producing energy?**

- a) Ribosome                      **b) Mitochondria**                      c) Nucleus                      d) Golgi apparatus

**124. QUESTION: What pigment gives plants their green color?**

- a) Hemoglobin                      b) Melanin                      **c) Chlorophyll**                      d) Carotene

**125. QUESTION: What is the study of heredity called?**

- a) Cytology                      **b) Genetics**                      c) Ecology                      d) Botany

**126. QUESTION: Which of the following is a parasitic plant?**

- a) Mango                      **b) Cuscuta (Dodder plant)**                      c) Neem                      d) Rose

**127. QUESTION: What type of blood cells help fight infections?**

- a) White blood cells**                      b) Red blood cells                      c) Platelets                      d) Plasma

**128. QUESTION: What part of the body produces insulin?**

- a) Liver                      **b) Pancreas**                      c) Kidney                      d) Stomach

**129. QUESTION: What is the smallest bone in the human body?**

- a) Femur                      b) Radius                      **c) Stapes (in ear)**                      d) Homarus

**130. QUESTION: What type of reproduction occurs without fertilization?**

- a) Sexual                      **b) Asexual**                      c) Pollination                      d) Hybridization

**131. QUESTION: What type of substance speeds up a chemical reaction but remains unchanged?**

- a) Catalyst**                      b) Reactant                      c) Product                      d) Solvent

**132. QUESTION: Which metal is the most reactive?**

- a) Iron                      b) Copper                      **c) Potassium**                      d) Gold

**133. QUESTION: What is the main gas found in LPG (Liquefied Petroleum Gas)?**

- a) Propane and Butane**                      b) Methane                      c) Ethanol                      d) Oxygen

**134. QUESTION: What type of substance turns blue litmus paper red?**

- a) Base                      **b) Acid**                      c) Neutral                      d) Alcohol

**135. QUESTION: Which metal is commonly used in making batteries?**

- a) Lithium**                      b) Gold                      c) Silver                      d) Aluminum

**136. QUESTION: Which of these is an example of a chemical change?**

- a) Melting ice                      **b) Burning wood**                      c) Boiling water                      d) Breaking glass

**137. QUESTION: What is the chemical formula for ammonia?**

- a) H<sub>2</sub>O                      **b) NH<sub>3</sub>**                      c) CO<sub>2</sub>                      d) CH<sub>4</sub>

**138. QUESTION: Which gas is used in fire extinguishers?**

- a) Oxygen                      **b) Carbon dioxide**                      c) Nitrogen                      d) Hydrogen

**139. QUESTION: What is the process of a liquid changing into gas at any temperature?**

- a) Freezing                      **b) Evaporation**                      c) Condensation                      d) Boiling

**140. QUESTION: What do you get when you mix an acid with a base?**

- a) Salt and water      b) Gas                      c) More acid                      d) More base

**141. QUESTION: What type of lens is used in magnifying glasses?**

- a) Convex lens      b) Concave lens                      c) Plane mirror                      d) Parabolic mirror

**142. QUESTION: What is the SI unit of electric resistance?**

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

**143. QUESTION: What color absorbs the most heat?**

- a) White                      b) Red                      c) Yellow                      **d) Black**

**144. QUESTION: What is the speed of light in a vacuum?**

- a) **299,792,458 m/s**                      b) 3,000 m/s                      c) 150,000 m/s                      d) 500,000 m/s

**145. QUESTION: What type of simple machine is a seesaw?**

- a) **Lever**                      b) Pulley                      c) Wedge                      d) Screw

**146. QUESTION: Which law states that an object at rest stays at rest unless acted upon by an external force?**

- a) Ohm's Law                      **b) Newton's First Law**                      c) Archimedes' Principle                      d) Boyle's Law

**147. QUESTION: What happens to the pressure of a gas when its volume decreases?**

- a) Increases                      **b) Increases (Boyle's Law)**                      c) Stays the same                      d) Decreases

**148. QUESTION: Which of these waves is used in X-rays?**

- a) Radio waves                      **b) Electromagnetic waves**                      c) Sound waves                      d) Water waves

**149. QUESTION: What is the force that opposes motion called?**

- a) Gravity                      **b) Friction**                      c) Momentum                      d) Acceleration

**150. QUESTION: What is the unit of electric current?**

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

**151. QUESTION: What is Earth's outermost layer called?**

- a) **Crust**                      b) Mantle                      c) Core                      d) Lithosphere

**152. QUESTION: What causes day and night?**

- a) Earth's revolution                      **b) Earth's rotation**                      c) The Moon                      d) The Sun's movement

**153. QUESTION: What is the largest planet in the Solar System?**

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



**154. QUESTION: What is the name of the supercontinent that existed millions of years ago?**

- a) Pangaea                      b) Gondwana                      c) Laurasia                      d) Eurasia

**155. QUESTION: What is the main reason for ocean tides?**

- a) Sun's heat                      **b) Moon's gravitational pull**                      c) Wind                      d) Earth's core

**156. QUESTION: Which planet has the largest volcano in the Solar System?**

- a) Earth                      **b) Mars (Olympus Mons)**                      c) Jupiter                      d) Venus

**157. QUESTION: What is the study of fossils called?**

- a) Zoology                      b) Botany                      **c) Paleontology**                      d) Astronomy

**158. QUESTION: What is the densest layer of Earth?**

- a) **Inner Core**                      b) Mantle                      c) Outer Core                      d) Crust

**159. QUESTION: What are Saturn's rings mainly made of?**

- a) **Ice and rock**                      b) Dust                      c) Metal                      d) Lava

**160. QUESTION: What is the name of the first satellite sent into space?**

- a) Apollo 11                      **b) Sputnik 1**                      c) Voyager 1                      d) Hubble

**161. QUESTION: What is the basic unit of life?**

- a) Organ                      b) Tissue                      **c) Cell**                      d) Atom

**162. QUESTION: Which part of the plant conducts water from the roots to the leaves?**

- a) Phloem                      **b) Xylem**                      c) Cortex                      d) Epidermis

**163. QUESTION: What is the powerhouse of the cell?**

- a) Nucleus                      **b) Mitochondria**                      c) Ribosome                      d) Chloroplast

**164. QUESTION: Which human organ is responsible for filtering blood?**

- a) **Kidney**                      b) Liver                      c) Heart                      d) Stomach

**165. QUESTION: Which part of the human digestive system absorbs most nutrients?**

- a) Stomach                      **b) Small intestine**                      c) Large intestine                      d) Esophagus

**166. QUESTION: What is the largest organ in the human body?**

- a) Heart                      b) Liver                      **c) Skin**                      d) Lungs

**167. QUESTION: What gas do plants take in during photosynthesis?**

- a) Oxygen                      b) Nitrogen                      **c) Carbon dioxide**                      d) Hydrogen

**168. QUESTION: Which type of muscle is found only in the heart?**

- a) Skeletal muscle                      **b) Cardiac muscle**                      c) Smooth muscle                      d) Voluntary muscle

**169. QUESTION: What is the main function of white blood cells?**

- a) Carry oxygen                      **b) Fight infections**                      c) Clot blood                      d) Digest food

**170. QUESTION: What is the function of hemoglobin in red blood cells?**

- a) Digest food      b) Carry oxygen      c) Fight infections      d) Transport waste

**171. QUESTION: What is the chemical symbol for gold?**

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

**172. QUESTION: Which of the following is an example of a noble gas?**

- a) Oxygen      b) Neon      c) Hydrogen      d) Carbon dioxide

**173. QUESTION: What type of bond is formed when atoms share electrons?**

- a) Covalent bond      b) Ionic bond      c) Metallic bond      d) Hydrogen bond

**174. QUESTION: What is the most abundant gas in Earth's atmosphere?**

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

**175. QUESTION: What is the chemical formula for table sugar (sucrose)?**

- a) H<sub>2</sub>O      b) C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>      c) NaCl      d) CO<sub>2</sub>

**176. QUESTION: Which acid is present in lemon juice?**

- a) Hydrochloric acid      b) Citric acid      c) Sulfuric acid      d) Acetic acid

**177. QUESTION: What is the chemical name for rust?**

- a) Ferrous sulfate      b) Iron nitrate      c) Iron oxide      d) Copper sulfate

**178. QUESTION: Which element is found in all organic compounds?**

- a) Carbon      b) Oxygen      c) Hydrogen      d) Nitrogen

**179. QUESTION: What is the pH of an acidic solution?**

- a) Less than 7      b) Equal to 7      c) More than 7      d) Exactly 10

**180. QUESTION: Which metal is commonly used in thermometers?**

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

**181. QUESTION: What force pulls objects toward the center of the Earth?**

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

**182. QUESTION: Which of these is an example of kinetic energy?**

- a) A moving car      b) A stretched rubber band  
c) A book on a table      d) A compressed spring

**183. QUESTION: Which of these is a unit of power?**

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

**184. QUESTION: What happens when light passes from air into water?**

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



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