

SAMPLE PAPER SCIENCE MANIA QUIZ 2025 GRADE 11 AND 12

QUESTION 1. What is the basic unit of life?

- A. Atom
- B. Molecule
- C. Cell**

QUESTION 2. Which gas is essential for human respiration?

- A. Carbon Dioxide
- B. Oxygen**
- C. Nitrogen

QUESTION 3. What planet is known as the "Red Planet"?

- A. Venus
- B. Mars**
- C. Jupiter

QUESTION 4. What is the process by which plants make their own food?

- A. Respiration
- B. Digestion
- C. Photosynthesis**

QUESTION 5. What is the chemical formula of water?

- A. H₂O**
- B. CO₂
- C. NaCl

QUESTION 6. Which force keeps objects anchored to the Earth?

- A. Magnetism
- B. Gravity**
- C. Friction

QUESTION 7. What is the main source of energy for the Earth?

- A. Wind
- B. Water
- C. Sun**

QUESTION 8. Which organ in the human body filters blood?

- A. Heart
- B. Kidneys**
- C. Lungs

QUESTION 9. Which organelle is involved in protein synthesis?

- A. Lysosome
- B. Mitochondria
- C. Ribosome**

QUESTION 10. Which acid is commonly known as vitamin C?

- A. Citric Acid
- B. Acetic Acid
- C. Ascorbic Acid**

QUESTION 11. What is the name of the process by which plants lose water through their leaves?

- A. Transpiration**
- B. Photosynthesis
- C. Respiration

QUESTION 12. Which particle is negatively charged in an atom?

- A. Proton
- B. Neutron
- C. Electron**

QUESTION 13. Which planet has the highest surface temperature in our solar system?

- A. Mercury
- B. Venus**
- C. Mars

QUESTION 14. What is the primary cause of acid rain?

- A. Excess oxygen in the atmosphere
- B. Emissions of sulfur dioxide and nitrogen oxides**
- C. High levels of carbon monoxide

QUESTION 15. Which branch of physics deals with the motion of objects?

- A. Thermodynamics
- B. Optics
- C. Mechanics**

QUESTION 16. What is the primary function of hemoglobin in the blood?

- A. Fight infections
- B. Digest food
- C. Transport oxygen**

QUESTION 17. Which law explains the relationship between pressure and volume of a gas at constant temperature?

- A. Charles's Law
- B. Boyle's Law**
- C. Avogadro's Law