

High School Basic Science Assessment

Basic Science · Answer Key · 18 Questions

1. Which organelle is known as the powerhouse of the cell?

- A) Nucleus
- B) Mitochondria**
- C) Ribosome
- D) Golgi apparatus

2. What is the chemical symbol for the element gold?

- A) Ag
- B) Fe
- C) Au**
- D) Gd

3. Which state of matter has a definite volume but no definite shape?

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

4. What is the pH value of a neutral solution?

- A) 0
- B) 7**
- C) 10
- D) 14

5. Which force is responsible for objects falling towards the Earth?

- A) Magnetism
- B) Friction
- C) Gravity**
- D) Electrostatic force

6. Which part of the atom has a negative charge?

- A) Proton
- B) Neutron
- C) Electron**
- D) Nucleus

7. What gas do plants primarily absorb from the atmosphere for photosynthesis?

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

8. Which planet is known as the Red Planet?

- A) Venus
- B) Mars**
- C) Jupiter
- D) Saturn

9. What is the boiling point of water at sea level?

- A) 50°C
- B) 80°C
- C) 100°C**
- D) 120°C

10. Which type of bond involves the sharing of electron pairs between atoms?

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

11. What is the primary function of red blood cells?

- A) Fighting infection
- B) Clotting blood
- C) Transporting oxygen**
- D) Producing hormones

12. Which subatomic particle is located in the nucleus and has no electric charge?

- A) Proton
- B) Electron
- C) Neutron**
- D) Positron

13. What is the SI unit of force?

- A) Joule
- B) Watt
- C) Newton**
- D) Pascal

14. Which vitamin is produced by the human skin when exposed to sunlight?

- A) Vitamin A
- B) Vitamin B12
- C) Vitamin C

D) Vitamin D

15. What term describes the change of state from solid directly to gas?

- A) Evaporation
- B) Condensation

C) Sublimation

D) Deposition

16. In the periodic table, what is the atomic number of Hydrogen?

A) 1

B) 2

C) 3

D) 4

17. Which blood vessel carries blood away from the heart?

- A) Vein
- B) Capillary

C) Artery

D) Venule

18. What is the study of living organisms called?

- A) Physics
- B) Chemistry

C) Biology

D) Geology