



**First
Semester**

Exam 1

**Unit one
Matter and
Energy**

**Class
PREP 2**

**Subject
Science**



Unit One: Matter and Energy

Part 1

Multiple choice

1. What is the definition of matter?
 - a) Anything that has weight
 - b) Anything that has mass and occupies space
 - c) Anything that can be seen
 - d) Anything that has volume
2. Which of the following is NOT a common state of matter?
 - a) Solid
 - b) Liquid
 - c) Gas
 - d) Wood
3. What property do solids and liquids share?
 - a) Definite shape
 - b) Ability to flow
 - c) Definite volume
 - d) Compressibility
4. Why are liquids and gases classified as fluids?
 - a) Because they have mass
 - b) Because they can flow
 - c) Because they are compressible
 - d) Because they have definite volume
5. What happens to the volume of a gas when it is compressed?
 - a) Increases
 - b) Decreases
 - c) Remains constant
 - d) Becomes zero
6. What is diffusion?
 - a) Movement of particles from low to high concentration
 - b) Movement of particles from high to low concentration
 - c) Mixing of two solids
 - d) Compression of gases
7. In which state does diffusion occur fastest?
 - a) Solids
 - b) Liquids
 - c) Gases
 - d) Plasma





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8. What is Brownian motion?

- a) Regular movement of particles
- b) Random movement of large suspended particles
- c) Flow of liquids
- d) Compression of gases

9. What is the fourth state of matter?

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

10. Which of these is a physical change?

- a) Burning wood b) Rusting iron
- c) Melting ice d) Cooking food

11. Which of these is a chemical change?

- a) Breaking glass b) Dissolving sugar
- c) Cutting paper d) Burning paper

12. What indicates a chemical reaction has occurred?

- a) Change in shape b) Change in size
- c) Formation of new substances
- d) Change in temperature only

13. Which is NOT an indicator of chemical reaction?

- a) Color change b) Gas formation
- c) Change in mass d) Precipitate formation

14. What happens when baking soda reacts with vinegar?

- a) Formation of precipitate b) Color change
- c) Gas evolution d) Temperature decrease

15. Why do solids have definite shape?

- a) Weak attractive forces
- b) Strong attractive forces between particles
- c) Large distances between particles
- d) High compressibility





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16. What is compressibility?

- a) Ability to flow
- b) Ability to change shape
- c) Ability to reduce volume under pressure
- d) Ability to diffuse

17. Which has the strongest attractive forces between particles?

- a) Solids
- b) Liquids
- c) Gases
- d) Plasma

18. What is the main difference between boiling and evaporation?

- a) Boiling occurs at surface only
- b) Evaporation occurs at boiling point only
- c) Boiling occurs throughout liquid at specific temperature
- d) Evaporation produces bubbles

19. Which factor does NOT affect evaporation rate?

- a) Temperature
- b) Surface area
- c) Color of liquid
- d) Air currents

20. What is the boiling point of water at normal atmospheric pressure?

- a) 0°C
- b) 50°C
- c) 100°C
- d) 150°C





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