



Note: (1) Think and Answer (2) Read the questions properly

(3) Attempt objective questions on test paper (4) Avoid gel/ink pen on test paper

Name:

Date:

Objective: To examine the level of knowledge implementation.

Areas of improvement:

Maximum Marks Objective	10
Marks Obtained	
%	
Maximum Marks Subjective	12
Marks Obtained	
%	
Maximum Marks	22
Marks Obtained	
%	

Parent's Signature	Parent's Signature



I. Objective Questions

A. Multiple Choice Questions:

[0.5 x 13 = 6.5]

1: A few substances are grouped in increasing order of their particle's 'forces of attraction.' Which of the following is the correct order?

- A. Water, oxygen, chalk
- B. Salt, juice, wind
- C. Nitrogen, water, sugar
- D. Air, salt, oil

2. A form of matter has no fixed shape and no fixed volume. An example of this form of matter is:

- A. Petrol
- B. Iron
- C. Krypton
- D. Carbon steel

3. Combustibility is a

- A. Physical property
- B. Reactive Property
- C. Chemical Property
- D. Not a property

4. CO₂ can be easily liquefied and even solidified because

- A. It has weak forces of attraction
- B. It has comparatively more force of attraction than other gases
- C. It has more intermolecular space
- D. It is present in atmosphere

5. Under which of the following conditions we can boil water at room temperature?

- A. At low pressure
- B. At high pressure
- C. At very high pressure
- D. At atmospheric pressure

6. Which of the following is a characteristic of a liquid?

- A. Has a definite shape and volume



- B. Takes the shape of its container
- C. Neither has a definite shape nor a definite volume
- D. Has a definite shape but no definite volume

7. What is the state of matter characterized by having no definite shape or volume?

- A. Solid
- B. Liquid
- C. Gas
- D. Plasma

8. What is the freezing point of water in Celsius?

- a) 0°C b) 100°C c) -273°C d) 373°C

9. Which state of matter has the least kinetic energy?

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

10. Which of the following is a characteristic of a solid?

- a) Takes the shape of its container
- b) Has a definite volume but no definite shape
- c) Has neither a definite shape nor a definite volume
- d) Has a definite shape and volume

11. What happens to the volume of a substance when it changes from a solid to a liquid?

- A. It decreases
- B. It increases
- C. It remains the same
- D. It cannot be determined

12. Which of the following is NOT a state of matter?

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

13. Which of the following is a chemical property of matter?

- a) Boiling point b) Melting point c) Density d) Reactivity with acid



B. Fill in the blanks:

[0.5 x 6 = 3]

- (a) _____ properties can be measured or observed without changing the identity or the composition of the substance.
- (b) Diffusion of solids are _____ than liquids.
- (c) Molecules in a _____ are packed very closely.
- (d) A gas on cooling liquefies to the _____.
- (e) The three states of matter are interconvertible by changing the conditions of _____ and _____.
- (f) When a gas is cooled, its molecules _____ energy.

II. Short Answer Questions: (Attempt any 3 questions only) [2 x 3 = 6]

Q1. Give two examples for each of the following:

- a) The substances which sublime.
- b) The substances which do not change their state on heating.

Q2. State which of the three states of matter i.e. solids, liquids or gases - have

- I. No definite volume
- II. A definite shape
- III. High density
- IV. No free surfaces
- V. Particles which diffuse very easily.

Q3. State in which of the following examples i.e. a piece of wood, water, a light gas is the -

- (a) Inter-particle space maximum
- (b) Inter-particle attraction maximum
- (c) Energy possessed by particles of matter, very large.

Q4. Why can a piece of chalk be broken easily into smaller pieces while a coal piece cannot be broken easily?



III. Long Answer Questions: (Attempt any 2 questions only)

[3 x 2 = 6]

Q1. State the main postulates of the kinetic theory with special reference to -

- (a) Inter-particle space
- (b) Inter-particle attraction
- (c) Energy possessed by particles of matter.

Q2. Draw a labelled schematic diagram representing the terms - (a) to (e) involved in the inter-conversion of matter.

Q3. Give reasons for the following:

1. Particles of matter possess energy called kinetic energy.
2. Solids cannot be compressed, but gases are highly compressible.
3. Kinetic energy of molecules of gases is very large & of solids, the least.
4. On heating a sublimable solid, the molecules break free & escape from surface of the solid directly into vapour.
5. Particles of matter move more rapidly on application of heat.