

## CLASS IX- CHEMISTRY MATTER IN OUR SURROUNDING

### Assignment-1

#### MULTIPLE CHOICE QUESTION - 1.1

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1. The quantity of matter present in an object is called its -  
(A) weight                      (B) volume                      (C) mass                      (D) Density
2. Which of the following is/are rigid(s) ?  
(A) Solids                      (B) Liquids                      (C) Gases                      (D) Both (B) and (C)
3. Which of the following statements is/are correct ?  
(A) Intermolecular forces of attraction in solids are maximum.  
(B) Intermolecular forces of attraction in gases are minimum.  
(C) Intermolecular spaces in solids are minimum.  
(D) All of the above
4. What happens to the volume of the solution when a small amount of sugar is dissolved in it ?  
(A) Volume will increase.                      (B) Volume will decrease.  
(C) Volume first increases then decreases.                      (D) No change in volume.
5. Which of the following is not correct for gases ?  
(A) Gases have definite mass.                      (B) Gases have definite shape.  
(C) Gases have definite volume                      (D) Both (B) and (C)
6. Which of the following is not an example of matter ?  
(A) Air                      (B) Feeling of cold                      (C) Dust                      (D) None of these
7. Which of the following statements is correct ?  
(A) Interparticle spaces are maximum in the gaseous state of a substance.  
(B) Particles which constitute the matter follow a zig-zag path.  
(C) Solid state is the most compact state of substance.  
(D) All are correct
8. Which out of the following does not make sense.  
(A) Solids have fixed shape and fixed volume.  
(B) Liquids can be compressed easily, but not gases.  
(C) The particles of solids have negligible kinetic energy.  
(D) Property of diffusion is maximum in the gaseous state.
9. Which of the following is/are application(s) of high compressibility of gases ?  
(A) L.P.G. is used as fuel in homes for cooking food.  
(B) Oxygen cylinders are supplied to hospitals.  
(C) C.N.G. is used as fuel in vehicles.  
(D) All of these
10. Which of the following statements does not go with the liquid state ?  
(A) Particles are loosely packed in the liquid state.  
(B) Fluidity is the maximum in the liquid state.  
(C) Liquids can be compressed.  
(D) Liquids take up the shape of any container in which these are placed.

## SUBJECTIVE QUESTION - 1.2

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1. What is Brownian motion?
2. Why do gases diffuse very fast?
3. Arrange the following substances in the increasing order of interparticle forces. Water, common salt, nitrogen.
4. Out of solid, liquid and gas, which has -  
(a) maximum interparticle spaces. (b) maximum particle motion.'  
(c) definite volume but no definite shape. (d) least diffusion of the particles.
5. Give four characteristics associated with the gaseous state.
6. What is common in the three states of matter?
7. A certain substance 'A' can be compressed to very less extent, but takes up the shape of any container in which it is placed. What will be its physical state ?
8. Solids are generally very heavy while gases are light. Explain.

# Prerna Education