

# Worksheet

Practice. Learn. Succeed

Sub : Science

Grade: IX

Date: .....

Name: .....

ID No.....

## Tick the Choice Question

- 1. Which of the following matters exists in almost all three states?**
  - (a) Mercury
  - (b) Liquid sodium
  - (c) Water
  - (d) Iron
- 2. When water solidifies to ice, then heat is**
  - (a) evolved
  - (b) absorbed
  - (c) no change in heat
  - (d) none of these
- 3. The liquid which has the weakest inter-molecular forces of attraction is**
  - (a) water (B.P. = 100°C)
  - (b) mercury (B.P. = 357°C)
  - (c) ethyl alcohol (B.P. = 79°C)
  - (d) diethyl ether (B.P. = 36°C)
- 4. Solids do not flow because**
  - (a) of large molecular space between particles
  - (b) they do not have definite shape
  - (c) they have very strong intermolecular forces in between particles
  - (d) all of these
- 5. Liquids can easily flow because**
  - (a) particles are closely packed together
  - (b) intermolecular forces are negligible
  - (c) intermolecular forces are strong but not enough to keep them together
  - (d) none of these
- 6. Which one of the following is fixed in liquid?**
  - (a) Shape
  - (b) Velocity
  - (c) Volume
  - (d) All of these
- 7. A gas can be converted into liquid state by applying**
  - (a) high pressure and high temperature
  - (b) low pressure and low temperature
  - (c) low pressure and high temperature
  - (d) high pressure and low temperature
- 8. The rate of diffusion is highest in:**
  - (a) solid
  - (b) liquid
  - (c) gas
  - (d) none of these
- 9. Intermolecular attraction is most effective in**
  - (a) solids
  - (b) liquids
  - (c) gases
  - (d) all of these
- 10. The heat absorbed when 1 kg of liquid is converted to its vapour state at its boiling point is called**
  - (a) evaporation
  - (b) latent heat of vaporisation
  - (c) latent heat of fusion
  - (d) latent heat of sublimation