

WORKSHEET 1

Chapter 1: Matter in our Surroundings

1 Mark Questions

- Q1. A substance has no mass. Can we consider it as matter?
- Q2. What is meant by latent heat of vapourisation?
- Q3. Why should wet clothes are spread while drying?
- Q4. Why do liquids have mostly lower density than solids?
- Q5. Name the phenomenon of changing of liquid into vapour at a temperature even below its boiling point.
- Q6. State one difference between gas and vapour.

2 Mark Questions

- Q1. Give one similarity and one dissimilarity between a liquid and a gas.
- Q2. Which phenomenon occurs during the following changes?
(i) Formation of clouds
(ii) Drying of wet clothes
(iii) Wax melts in the sun
(iv) Size of naphthalene balls decreases.
- Q3. Water as ice has a cooling effect, whereas water as steam may cause severe burns. Explain these observations
- Q4. Rate of diffusion is faster in gases. Why?
- Q5. Write the chemical name of dry ice. Justify its name. How is it stored.
- Q6. Define the term sublimation. Write the names of any two substances which sublime.
- Q7. Explain why heat energy is need to melt a solid. Define latent heat of fusion.

3 Mark Questions

- Q1. (i) A sponge can be compressed, yet it is a solid? Explain.
(ii) Name the state of matter that has minimum space between particles.
- Q2. (i) How will you show that the process of evaporation depends on the nature of the liquid?
(ii) Why a drop of dettol is evenly distributed in a bucket of water without the need of stirring?
- Q3. Why is it advisable to use pressure cooker at higher altitudes for cooking food? (from practice set)
- Q4. State all the factors that affect the rate of evaporation of water and also state how these factors affect it.
- Q5. Design an activity to show that gases are highly compressible as compared to solids and liquids.
- Q6. Distinguish among three states of matter with respect to the property indicated: Density, Diffusion, Particle motion.

5 Mark Questions

- Q1. What are the differences between solid liquid and gaseous states?
- Q2. Describe an activity to determine the boiling point of water and melting point of ice.
- Q3. Compare in tabular form, the properties of solids, liquids and gases with respect to :
(i) shape,
(ii) volume,
(iii) compressibility,
(iv) diffusion,
(v) fluidity or rigidity.
- Q4. Answer the following questions:
(i) Out of boiling and evaporation which is a surface phenomenon? Explain. In the absence of a refrigerator butter is kept wrapped in a wet cloth during summer. Why?
(ii) Why does ice-cream appear colder than water at the same temperature?
