

ORGANIC CHEMISTRY

WORKSHEET - 1

1. Give the graphical representation of the temperature and time when a student's heats a mixture of ice and water in a beaker.
2. Define Diffusion. It is faster in winter or summer season?
3. By placing finger in the running steam of water, you are not able to break the steam of water. What do you conclude from this?
4. Give reasons for the following:
 - (a) Ice at 0°C appears colder to the mouth than water at 0°C . Why.
 - (b) Doctors' advice to put strips of wet cloth on the forehead of a person having high temperature. Why?
5. How is heating of sugar and heating of ammonium chloride different from each other? Explain your answer.
6. "Osmosis is a special kind of diffusion". Comment.
 - (a) How gas can be liquify?
 - (b) Why do clothes take more time in drying on a rainy day?
7. A substance A has high compressibility and can be easily liquefied. It can take the shape of container. Predict the nature of the substance. Enlist four properties of this state of Matter.
8. Suggest an activity to show that the rate of diffusion of liquid decreases with increase in density of the liquid.
9. A gas jar containing air is placed upside down on a gas jar of bromine vapors. It is observed that after sometimes, the gas jar containing air also becomes completely reddish brown.
 - (a) Explain why this happens.
 - (b) Name the process involved
10.
 - (a) Steam produces more burns as compared to boiling water.
 - (b) Temperature of the liquid does not change during evaporation. Explain.