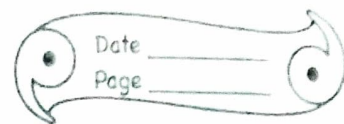


HW
7/7/2021

Home Assignment



1) State three factors which affect the rate of evaporation of a liquid.

Ans- The following are the three factors which affect the rate of evaporation:

* The temperature of liquid.

* The area of the exposed surface.

* The presence of moisture or humidity.

2) Wet clothes dry more quickly on a warm dry day than on a cold humid day. Explain.

Ans- In dry air, evaporation is faster than in humid air. This is why wet clothes dry faster in dry summer days than in rainy season.

3) Why are volatile liquids such as alcohol and spirit stored in tightly closed bottles?

Ans- Volatile liquids with low boiling point evaporate much faster than water. This is why volatile liquids are stored in

tightly closed bottles.

4) Why is cooling produced on evaporation of a liquid?

Ans- The reason for cooling in evaporation is that when a liquid changes into vapour, it requires heat. This heat is supplied by the surroundings of the liquid. This results in fall in temperature in the surroundings.

5) Explain why in hot summer days water remains cool in earthen pots.

Ans- In summer, water gets cooled in an earthen pot. The reason is that water seeps out on the surface through the pores in the pot and it evaporates. The heat required for evaporation is taken from water inside the pot which therefore gets cooled.