TECHNO INDIA GROUP PUBLIC SCHOOL

QUESTION BANK

CHAPTER-MATTER IN OUR SURROUNDINGS

CLASS-IX

SECTION – A (1 MARK EACH)

I) MULTIPLE CHOICE QUESTIONS

1) Which one of the following sets of the phenomenon would increase on raising the temperature?
a)Diffusion,evaporation,compression of gases
b)evaporation ,compression of gases,solubility
c)evaporation,diffusion,expansion of gases
d)evaporation,solubility,diffusion,compressibility of gases.

2) The property to flow is unique to fluids.Which one of the following statements is correct?
a)Only gases behave like fluids.
b)Gases and solids behave like fluids.
c)Gases and liquids behave like fluids.
d)Only liquids are fluids.

3)On converting 25˚C, 38˚C, 66˚C to Kelvin scale,the correct sequence of temperature will be:
a)298K, 311K and 339K.
b)298K, 300K and 338K
c)273K, 278K and 543K
d)298K, 310K and 338K.

4)When a gas jar full of air is placed upside down on a gas jar full of bromine vapours,the red brown vapours of bromine from the lower jar go upward into the jar containing air.In this experiment:
a)A ir is heavier than bromine
b)Bromine is heavier than air
c)Both air and bromine have same density
d)Bromine cannot be heavier than air because it is going upwards against gravity.

5)A form of matter has no fixed shape but it has a fixed volume.An example of this form of matter is :
a)Krypton
b)Kerosene

c)Carbon steel
d)Carbon dioxide.

SECTION –B (3 MARKS EACH)

II) ANSWER THE FOLLOWING SHORT ANSWER TYPE QUESTIONS:

6) a) When common salt is added to water,will there be any change in volume? Give reason.
b) Write any one similarity between three states of matter.

7) Out of boiling and evaporation,which is a surface phenomenon? Explain.

8) A rubber band can change its shape on stretching,will you classify it as solid or not? Justify your answer.

9)Name SI unit of measuring temperature.The boiling point of water is 100˚C under normal atmospheric pressure .Convert this temperature to SI units.

10)Write the two characteristics and explain briefly,how three states of matter arise due to the variation in their constituent particles.

SECTION –C (5MARKS EACH)

III) ANSWER THE FOLLOWING LONG ANSWER TYPE QUESTIONS:

11) Give reasons:
a) The latent heat of vaporisation of steam is more than that of the boiling water.
b) Napthalene balls disappear with time without leaving any solid.
c) We can get the smell of perfume sitting several metres away.
d) Wet clothes donot dry easily on a rainy day.

12) Define:
a) Fusion b) Rigidity c) Latent heat of vaporisation d) Fluidity.

13)With the help of an activity show that particles of matter are very small and then describe the said activity.

14)From the temperature-time graph,answer the following questions:
a)State the physical state of the substance at the points A,B,C and D

b)What is the melting point of the substance?
c)What is its boiling point?
d) Which portions of the graph indicates that change of state is taking place?