SAINIK SCHOOL GOPALGANJ
SUB - SCIENCE
Class-IX

ASSIGNMENT - 2

Matter in Our surrounding

Choose the Correct Option from the given choices**.**

1. Multiple Choice Questions:

i. The quantity of matter present in an object is called its:
(a)Weight
(b)Gram
(c)Mass
(d)Density

ii. At higher altitudes:
(a)Boiling point of a liquid decreases
(b)Boiling point of a liquid increases
(c)No change in boiling point
(d)Melting point of solid increases

iii. The boiling point of alcohol is 78ºC What is this temperature in Kelvin scale:
(a)373 K
(b)351 K
(c)375 K
(d)78 K

iv. In which phenomena water changes into water vapour below its B.P.?
(a) Evaporation
(b) Condensation
(c) Boiling
(d) No such phenomena exist

v. When we put some crystals of potassium permanganate in a beaker containing water, we observe that after sometime whole water has turned pink. This is due to:
(a)Boiling
(b)Melting of potassium permanganate crystals
(c)Sublimation of crystals
(d)Diffusion

2. Fill in the blanks with suitable words

a) Water droplets are collected on the outer surface of a glass container containing ice because of _____
b) Gases can be liquefied by applying _____ and lowering _____
c) When steam condenses to form water, heat is _____
d) The smell of perfume spreads across a room due to _____
e) The rate of evaporation _____ on increasing the surface area of the liquid
f) Chemical name of dry ice is _____

3. <u>Answer the following question (Short Answer Type):</u>

a) With the help of an example, explain how diffusion of gases in water is essential?
b) On a hot sunny day, why do people sprinkle water on the roof or open ground?
c) A balloon when kept in sun, bursts after some time. Why?
d) Define Latent Heat of Fusion. What is the value of latent heat of fusion of ice?
e) Why steam causes more severe burns than boiling water?

4. <u>Answer the following questions (Long Answer Type):</u>

a) Define evaporation. Explain the factors responsible to affect the rate of evaporation.
b) What is sublimation? Name four substances that show sublimation. Diagrammatically represent how you will carry out sublimation in laboratory.
c) Convert the following temperature to Kelvin: 270ºC, 78ºC , -- 40ºC
d) Draw the States of matter triangle to show the inter conversion of states of matter
e) Explain briefly how gases can be liquefied.
f) Differentiate between evaporation and boiling

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