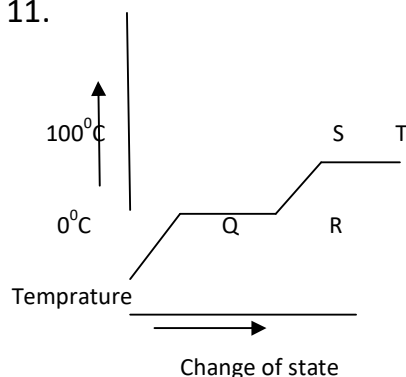


**CLASS –IX  
CHEMISTRY**

1. Which of the pair of gases would diffuse in faster rate, Nitrogen or Hydrogen? Why?
2. What is plasma and Bose-Einstein condensate?
3. Differentiate crystalline and amorphous solids.
4. Classify the following into osmosis or diffusion.
  - a. Earthworm dying on coming in contact with common salt.
  - b. Spreading of virus on sneezing.
5. Ordinary water boils at  $100^{\circ}\text{C}$  .Can it be made to boil at  $98^{\circ}\text{C}$  or  $103^{\circ}\text{C}$ ?
6. When the forehead of a person is being sponged with cold water, he feels refreshed. Why?
7. Why does the temperature remain constant at the m.p of ice?
8. Which phenomenon occurs during the following changes-?
  - a. Conversion of ammonia gas into liquid ammonia.
  - b. Conversion of solid  $\text{CO}_2$  into  $\text{CO}_2$  gas
9. Fill in the blanks.
  - a. \_\_\_\_\_ atm =  $2.02 \times 10^5$  Pa
  - b. \_\_\_\_\_  $^{\circ}\text{C}$  = 372 K
  - c. \_\_\_\_\_  $^{\circ}\text{C}$  = 98.6 F
10. The liquids A and B have b.p 350 K and 375 K. Which of the two has greater intermolecular force?

11.



What is the physical state of matter at QR ?