

38. Match the following equilibria with the corresponding condition

Column I		Column II	
(i)	Liquid \rightleftharpoons Vapour	(a)	Saturated solution
(ii)	Solid \rightleftharpoons Liquid	(b)	Boiling point
(iii)	Solid \rightleftharpoons Vapour	(c)	Sublimation point
(iv)	Solute(s) \rightleftharpoons Solute (solution)	(d)	Melting point ' '
		(e)	Unsaturated solution

Sol: (i) \rightarrow (b), (ii) \rightarrow (d), (iii) \rightarrow (c), (iv) \rightarrow (a)

(i) Liquid \rightleftharpoons Vapour equilibrium exists at the boiling point.

(ii) Solid \rightleftharpoons Liquid equilibrium exists at the melting point.

(iii) Solid \rightleftharpoons Vapour equilibrium exists at the sublimation point.

(iv) Solute(s) \rightleftharpoons Solute (solution) equilibrium exists in saturated solution.