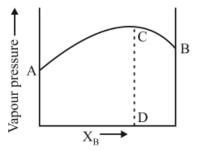
CHEMISTRY CLASS 12 BATCH

SOLUTIONS

DPP-04

1. The diagram given below is a vapour pressure composition diagram for a binary solution of A and B.



In the solution, A – B interactions are

- (1) similar to A A and B B interactions
- (2) greater than A A and B B interactions
- (3) smaller than A A and B B interactions
- (4) unpredictable
- 2. Solution of methanol and ethanol will form
 - (1) ideal solution
 - (2) non-ideal solution with positive deviation
 - (3) non-ideal solution with negative deviation(4) none
- 3. A solution which boils at constant temperature is called
 - (1) Azeotrope(2) Ideal solution(3) Saline water(4) Alkaline solution
- 4. A mixture of water and benzene is a/an
 - (1) ideal solution
 - (2) non-ideal solution with positive deviation
 - (3) non-ideal solution with negative deviation
 - (4) none of these
- 5. An azeotropic mixture of two liquids boils at a lower temperature than either of them when
 - (1) it is saturated
 - (2) it does not deviate from Raoult's law
 - (3) it shows negative deviation from Raoult's law
 - (4) it shows positive deviation from Raoult's law
- 6. Which of the following is not a characteristic of nonideal solution with positive deviation?

(1) ∆V _{mix} > 0	(2) $\Delta H_{mix} > 0$
(3) ∆S _{mix} < 0	(4) ∆G _{mix} < 0

- 7. A solution of strong acid and water is an (1) ideal solution
 - (2) non-ideal solution with positive deviation
 - (3) non-ideal solution with negative deviation
 - (4) none of the above
- 8. A non-ideal solution with negative deviation are called
 - (1) maximum boiling azeotropes
 - (2) minimum boiling azeotropes
 - (3) both (1) & (2)
 - (4) none of these
- 9. Which of the following is a characteristic of non-ideal solution with negative deviation?

(1) ∆V _{mix} < 0	(2) $\Delta H_{mix} > 0$
(3) ∆S _{mix} < 0	(4) ∆G _{mix} > 0