LAKSHYA (JEE)

Solution

DPP-03

- Pressure cooker reduces cooking time because:
 - (A) the heat is more evenly distributed inside the cooker
 - (B) a large flame is used
 - (C) boiling point of water is elevated
 - (D) whole matter is converted into steam
- An aqueous solution of methanol in water has vapour pressure:
 - (A) less than that of water
 - (B) equal to that of water
 - (C) more than that of water
 - (D) equal to that of methanol
- **3.** An aqueous solutions is 1 molal in KI. Which change will cause the vapour pressure of the solution to increase?
 - (A) Addition of NaCI
 - (B) Addition of Na₂SO₄
 - (C) Addition of 1 molal KI
 - (D) Addition of water
- Vapour pressure increases with increase in:
 - (A) concentration of solution containing non-volatile solute
 - (B) temperature upto boiling point
 - (C) temperature upto triple point
 - (D) altitude of the concerned place of boiling
- For a non-volatile solute:
 - (A) vapour pressure of solute is zero pressure of pure solvent
 - (C) vapour pressure of solution 1 vapour pressure of solvent in solution
 - (D) all of the above
- (A) In a pressure cooker, the water is Brought to boil. The cooker is then removed from the stove. Now on removing the lid of pressure cooker, the water starts boiling again.

- (R) The impurities in water bring down its boiling point.
- (A) If both (A) and (R) are correct and (R) is the correct explanation for (A)
- (B) If both (A) and (R) are correct but (R) is not the correct explanation for (A).
- (C) If (A) is correct but (R) is incorrect.
- (D) If (A) is incorrect but (R) is correct
- (A) An increase in surface area increases the rate of evaporation
 - (R) Stronger the inter-molecular attractive forces, faster is the rate of evaporation at a given temperature.
 - (A) If both (A) and (R) are correct and (R) is the correct explanation for (A)
 - (B) If both (A) and (R) are correct but (R) is not the correct explanation for (A).
 - (C) If (A) is correct but (R) is incorrect.
 - (D) If (A) is incorrect but (R) is correct
- Among 0.1 M solutions of urea, Na₃PO₄ and $Al_2(SO_4)_3$:-
 - (A) The vapour pressure is lowest for urea
 - (B) The vapour pressure is highest for
 - (C) Both (A) and (B)
 - (D) None
- Which of the following factor affecting the vapour pressure
 - (A) Nature of liquid
 - (B) vapour pressure of solution = vapour (B) Temperature

 - (C) Both (A) and (B)
 - (D) None
- 10. Vapour pressure depend on :-
 - (A) IMF (inter molecular force)
 - (B) Viscocity
 - (C) Both (A) and (B)
 - (D) None

ANSWERS

- **1.** (C)
- **2.** (A)
- **3.** (D)
- **4.** (B)
- **5.** (A)
- **6.** (C)
- **7.** (C)
- **8.** (B)
- **9.** (C)
- **10.** (C)





Note - If you have any query/issue

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