QUESTION : 1

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**

QUESTION : 2

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**

QUESTION : 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 Na_2SO_4

(C) Addition of 1 molal KI

(D) Addition of water

QUESTION : 4

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

QUESTION : 5

For a non-volatile solute:

(A) vapour pressure of solute is zero

(B) vapour pressure of solution = vapour pressure of pure solvent

(C) vapour pressure of solution ≠ vapour pressure of solvent in solution

(D) all of the above

QUESTION : 6

(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**

QUESTION : 7

(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

QUESTION : 8

Among 0.1 M solutions of urea, Na_3PO_4 and $Al_2(SO_4)_3$:-

(A) The vapour pressure is lowest for urea

(B) The vapour pressure is highest for urea

(C) Both (A) and (B)

(D) None

QUESTION : 9

Which of the following factor affecting the vapour pressure

(A) Nature of liquid

(B) Temperature

(C) Both (A) and (B)

(D) None

QUESTION : 10

Vapour pressure depend on :-

(A) IMF (inter molecular force)

(B) Viscocity

(C) Both (A) and (B)

(D) None

Thank You Lakshyians