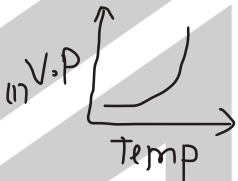


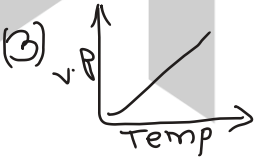
CHEMISTRY CLASS 12 BATCH

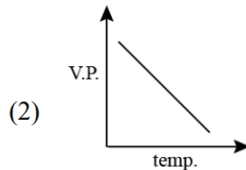
SOLUTIONS

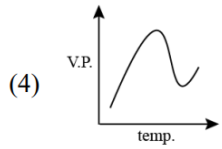
DPP-02

- At Vapour pressure
 - (rate)evaporation = (rate)condensation
 - (rate)evaporation > (rate)condensation
 - (rate)evaporation < (rate)condensation
 - None of the above
- Vapour pressure is achieved in
 - open container
 - closed container
 - both (1) & (2)
 - none of these
- At vapour pressure
 - forward change is favoured
 - backward change is favoured
 - both forward & backward changes are favoured but with equal rate
 - none of these
- Among the following, which has highest boiling point?
 - Water
 - Ethyl alcohol
 - Acetone
 - Chloroform
- The factor which do not affect vapour pressure is
 - forces between liquid molecules
 - temperature
 - dry air
 - volatile solute
- Change in surface area has following effect on vapour pressure
 - increases
 - decreases
 - do not affects vapour pressure
 - none of the above
- The vapour pressure of ethanol is 115 torr at 34.9°C. if ΔH_{vap} of ethanol is 38.6 kJ/mol. Calculate the temp. (°C) when then vapour pressure is 760 torr. (1) 69°C (2) 89°C (3) 99°C (4) 79°C
- A container having liquid in equilibrium with its vapour has volume of 10 L. If the volume of container is reduced to 5 L, the vapour pressure (consider constant temperature)
 - is reduced by 50%
 - is increased by 50%
 - remain constant
 - none of these
- If vapour pressure of 10 gram of a liquid solution is 'P', then what is the vapour pressure of 5 gram of same liquid solution?
 - P
 - 2P
 - P/2
 - none of these
- The correct relationship of vapour pressure and temperature is given by

(1) 

(3) 

(2) 

(4) 
- Which of the following is not a binary solution?
 - Pure water + Sugar
 - Air
 - Mixture of benzene and toluene
 - Mixture of ethanol and methanol
- A tank contains 5 moles of oxygen, 2 moles of nitrogen and 20g of hydrogen at room temperature. Find the mole fraction of hydrogen.
 - 5/17
 - 2/15
 - 8/15
 - 10/17
- An aqueous solution of ethanol contains 23g of ethanol dissolved in 90g of water. Find mole fraction of ethanol in the solution.
 - 3/4
 - 3/5
 - 2/7
 - 1/11

