

**T.Y.B.Sc. Semester 5 Mock Exam Question Paper**  
**Chemistry Paper I – Physical Chemistry**  
**Multiple Choice Questions**

- Q1 Vapour pressure of a liquid solvent .....when a non volatile solute is dissolve in it. 1M
- a) Increase
  - b) Decrease
  - c) no change
  - d) Expand
- Q2 Raoult's law is expressed by.....
- a)  $\frac{P^o - P}{P^o} = X_2$
  - b)  $\frac{P - P^o}{P^o} = X_2$
  - c)  $\frac{P - P^o}{P} = X_2$
  - d)  $\frac{P - P^o}{P^o} = X$
- Q3 ..... is used in Rast method because it has a high value of  $K_f$ .
- a) Camphor
  - b) Bi phenyl
  - c) Naphthalene
  - d) Sodium chloride
- Q4 Boiling point elevation of the solution  $\Delta T_b$  is given as.....
- a)  $\Delta T_b = T - T_o$
  - b)  $\Delta T_b = T_o - T$
  - c)  $\Delta T_b = T + T_o$
  - d)  $\Delta T_b = T \times T_o$
- Q5 The unit for activation of energy is .....
- a)  $\text{kJ mol}^{-1}$
  - b)  $\text{kJ K}^{-1}$
  - c)  $\text{kJ K}^{-1} \text{mol}^{-1}$
  - d)  $\text{kJ R}^{-1}$

# Physical Chemistry Multiple Choice Questions

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Murphy**



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