

Total No. of Questions : 6]

SEAT No. :

P462

[Total No. of Pages : 3

[5115] - 205
S.Y. B.Sc. (Semester - II)
CHEMISTRY
CH - 221: Physical and Analytical Chemistry
(2013 Pattern)

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagram must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Use of calculator is allowed.
- 5) Answer to both sections should be written in separate answer sheet.

SECTION - I
[Physical Chemistry]

Q1) Answer the following. **[5]**

- a) State the criteria of equilibrium in terms of ΔF .
- b) Write the Gibbs - Helmholtz equation.
- c) Draw the T-N diagram of solution with negative deviation.
- d) Define the term: Lower critical solution temperature.
- e) Define the term: Normality.

Q2) a) Attempt any two of the following. **[6]**

- i) Derive the Clapeyron equation.
- ii) State and explain Henry's law. Give its applications.
- iii) Explain with diagram the mutual solubility behaviour of phenol - water system at various temperatures.

b) Answer any two of the following. **[4]**

- i) State Raoult's law and give its equation.
- ii) Explain the physical significance of ΔF .
- iii) How will you calculate graphically the heat of vaporisation of liquid from Clausius - Clapeyron equation.

P.T.O.

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