

[4319]-1

F.Y.B.Sc. (Biotechnology)

CHEMISTRY

Bb - 101 : Fundamentals of Chemistry
(2008 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Draw neat and labelled diagrams wherever necessary.
- 3) Figures to the right indicates full marks.
- 4) Use of logarithmic table and calculator is allowed.

Q1) Answer the following :

[16]

- a) A sample of Helium has volume of 520 mL at 100°C. Calculate the temperature at which the volume will become 260 mL. Assume that pressure remains constant.
- b) Distinguish between order and molecularity.
- c) What is meant by abnormal molecular weight.
- d) Define the term component. How many components are present in the following system :



- e) What is effect of dilution of equivalent conductance of strong electrolyte.
- f) How will you determine the solubility product of sparingly soluble salt by emf method?
- g) What are distereomers?
- h) Distinguish between sigma (σ) and pi (Π) bond.

Q2) Attempt any FOUR of the following :

[16]

- a) State and explain Dalton's law of partial pressure.
- b) Show that half life period of first order reaction is independent of initial concentration of reactants.
- c) What are colligative properties? Explain any one colligative property.
- d) Describe KI - H₂O system on the basis of phase rule.
- e) Discuss Debye - Huckel theory of activity coefficients of strong electrolyte.
- f) Explain the factors affecting Vander Waal's forces.

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