

M.Sc. Chemistry (Final) Semester IV
Physical Chemistry (Special) Paper-XVII

Prof. A. Pal

Period: 02.03.2015 to 14.03.2015.

Topics

- (1) Discussion about Gaussian chain model
- (2) The wormlike chain model
- (3) Entropy of mixing and enthalpy of mixing by lattice model
- (4) Flory Huggins lattice theory
- (5) Limitations of lattice model
- (6) Entropy of mixing by free volume theory
- (7) Heat and free energy of mixing
- (8) Partial molar quantities i.e., chemical potential, heat of dilution and partial molar entropy of mixing
- (9) Excluded volume
- (10) Thermodynamic relations for dilute polymer solutions

Dr. Ritu

Lesson Plan for the week (02-03-2015 to 03-03-2015)

Topic: Radiative and non-radiative processes:

Kinetic competition of deactivation processes.

Monika

Lesson plan (02.03.2015-07.03.2015)

Molecular luminescence

- Introduction
- Principle
- Types
- Fluorescence

- Phosphorescence
- Instrumentation
- Experimental Technique
- Factor affecting luminescence
- Applications

Ravinder Kaur

Lesson Plan (2.03.2015-7.03.2015)

Paper VIII

Enzymes

Suicide substrates

Affinity labeling

Identification of active site by the use of inhibitors

Paper XIX

Processing of Tablets

Granulation-manufacture of granules

Their basic characteristic and properties with reference to different types of substances

Various additives included in formulation of tablets