

(LC 4252)

FEBRUARY 2013

Sub. Code: 4252

FIRST YEAR B.PHARM. EXAM

Paper II – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code : 564252

Time: Three Hours
(180 Min)

Maximum: 100 marks

I. Elaborate on:

(2 x 20 = 40 marks)

1. Define the terms 'Hybridization'. Explain various types of hybridization in carbon compounds with examples?
2. What are polynuclear aromatic hydrocarbons? Write the synthesis and properties of Diphenyl ethane, Phenanthrene and Naphthalene?

II. Write notes on:

(8 x 5 = 40 marks)

1. Explain Williamson ether Synthesis and Riemticman reaction?
2. Explain the preparation of Glycerol?
3. Discuss cannizaro and crossed cannizaro reaction?
4. Write any two method of preparation of carboxylic acid with its mechanism?
5. Explain Bayer's strain theory?
6. Give preparation, assay, use of Dimercaprol and Hexamine?
7. Give synthetic utility of diazonium salts?
8. Explain mechanism of Halogenation of alkanes. Discuss selectivity of halogens in this reaction?

III. Short Answers

(10 x 2 = 20 marks)

1. Diel's alder reaction?
2. Dipole moment?
3. Aromaticity of benzene?
4. Energy of activation?
5. Medicinal use of Mephensein and Benzyl benzoate?
6. Aniline with potassium permangante -----→?
7. Hoffmann degradation of amines?
8. How will distinguish 1,2 and 3 alcohol?
9. Tautomerism?
10. Explain Why Akynes are more reactive than alkenes?
