

(LD 4252)

AUGUST 2013

Sub Code: 4252

FIRST YEAR B.PHARM. EXAM

Paper II – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code: 564252

Time: Three hours

Maximum: 100 marks

I. Elaborate on:

(2X20=40)

1. (a) Illustrate the important steps in Haworth's synthesis of naphthalene.
(b) Describe about electrophilic and nucleophilic aromatic substitution reactions
2. (a) Write the general methods for the preparation of amines and carboxylic acids.
(b) Enumerate the methods for the preparation and synthetic utility of diazonium salts

II. Write Notes on:

(8 x 5 =40)

1. Write short notes on dipole moment
2. Describe the methods of preparation of alkenes
3. Explain about Markownikoff's rule
4. Write the methods of preparation of alcohol
5. Write the preparation and medicinal uses of vanillin
6. What are carbenes? Give examples and explain about stability
7. Write about aromatic character of benzene
8. Write short notes on mesomeric effect

III. Short Answers:

(10 x 2 =20)

1. Types of tautomerism
2. Cycloalkanes
3. Lactic acid
4. Energy of activation
5. Ozonolysis
6. Diel's-Alder reaction
7. Methyl salicylate
8. Conjugated dienes
9. Sodium lauryl sulphate
10. Alpha-Beta-Unsaturated Carbonyl Compounds
