(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 eletrophilic 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: $(8 \times 5 = 40)$

- 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: $(10 \times 2 = 20)$

- 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
