February 2012

[LA 4252]   Sub. Code: 4252

FIRST B.PHARM. EXAMINATION

Paper II – PHARMACEUTICAL ORGANIC CHEMISTRY
Q.P. Code : 564252

Time: Three Hours   Maximum: 100 marks

Answer ALL questions

I. Elaborate on: (2 x 20 = 40)

1. (a) Give the structure nomenclature, preparation and reaction of Cycloalkanes.(10)

   (b) Add a note on addition reactions of conjugated dienes. (5)

   (c) Explain the formation of bonding, anti-bonding orbitals. (5)

2. (a) What is kekule structure of benzene and write their resonance structure of Benzene. (7)

   (b) Explain the SN_2 reaction with the help of a suitable example. (8)

   (c) Outline the test for purity, preparation and medicinal uses of saccharin. (5)

II. Write notes on: (8 x 5 = 40)

1. What is the diazonium reaction? Explain the general reaction?
2. Write the synthesis and properties of phenanthrene.
3. Explain keto-enol tautomerism with examples.
4. Write the preparation, test for purity and medicinal uses of benzoic aci
5. Explain the Bayer's strain theory and its limitations.
6. Give the nomenclature and reactions of alkynes.
7. Explain the markovnikov's rule including the mechanism and with an example.
8. What are Grignard reagent and explain with one example?

III. Short Answers   (10 x 2 = 20)

1. Define intermolecular bonding.
2. Write the structure and uses of citric aci
3. How will you test the purity of vanillin?
4. Define hyper conjugation.
5. What is energy of activation?
6. Explain the following reactions

   (a) Sandmeyer reaction (b) Gattermann reaction.
7. What is Diens?
8. What are alkyl halides?
9. Write the preparation of malonic este
10. Explain bond fission.

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