(LL 4252)   **AUGUST 2017**   Sub Code: 4252

B.PHARM. DEGREE EXAMINATION
FIRST YEAR
PAPER II – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code: 564252

Time: Three hours   **Maximum: 100 Marks**

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

1. a) Write two methods of preparation and synthetic utility of Diazonium salts.
   b) Describe the generation, stability and applications of
      i) Carbanions   ii) Carbenes   iii) Free radicals.

2. a) Write the preparation and properties of (i) Diphenyl methane (ii) Anthracene.
   b) Give the preparation and medicinal uses of (i) Dicophane (ii) Amphetamine.

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

1. Describe the methods of preparation and reactions of alkynes.
2. Describe about Cannizaro and crossed Cannizaro reaction.
3. Write the mechanism of reactions of benzene with examples.
4. Give the preparation and medicinal uses of Gammaxene.
5. Write the preparation, tests for purity and medicinal uses of Benzoic aci
6. Describe in detail about electrophiles and nucleophiles.
7. Write the preparation carboxylicacids.
8. Write short notes on Coulson and Moffitt's modification.

III. Short answers on: (10 x 2 = 20)

1. Define resonance effect.
2. What is dipole moment?
3. Any one preparation of Glycol.
4. Two reactions of Cycloalkanes.
5. What is Huckel's rule?
6. Give the structure and medicinal use of Carbromal.
7. Give the structural formula and IUPAC name of butyl methyl ketone.
8. What is Hinsberg reaction?
9. What are epoxides?
10. What is Saytzeff's rule?

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