Roll No .....

## **PY - 203**

## **B.Pharm. II Semester**

Examination, December 2015

## Pharmaceutical Chemistry-III (Organic-I)

Time: Three Hours

Maximum Marks: 70

- Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
  - ii) All parts of each question are to be attempted at one place.
  - iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
  - iv) Except numericals, Derivation, Design and Drawing etc.
- 1. a) Explain Resonance in brief.
  - b) Write in brief about Nitrenium ion.
  - c) Write a note on Polarity with suitable examples.
  - d) Define Isomerism. Classify of isomers with suitable examples.

OR

Write a note on structure, stability and reactivity of Carbonium ion.

- a) What are conformational isomers?
  - b) State and explain: Saytzeff's rule.
  - c) Give the free radical reactions of alkanes.
  - d) What is Racemic Mixture? Give methods of resolve racemic mixture.

OR

Discuss the orientation and reactivity of electrophilicaline.com

- 3. a) Explain in brief Claisen condensation.
  - b) Give conversion of alcohol to Tosylates.
  - c) Give reactions of Phenols.
  - l) Discuss in detail substitution reactions of alkyl halides.

OR

Write in detail about Nucleophilic aromatic substitution reactions of benzene.

- 4. a) Give any two chemical properties of Ketones.
  - b) Discuss Hofmann degradation.
  - Give method of preparations of ethers.
  - d) Write a note on reactions of carbonyl compounds with suitable examples.

OR

Give difference between substitution vs. elimination reactions.

- 5. a) Comment Ammonia is more basic then methyl amine.
  - b) How will you differentiate alcohols?
  - c) Give reactions of amines.
  - l) Write a note on diazonium salts.

OR

Give methods of preparation of Esters and amides.

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