PY - 203

B.Pharmacy II Semester

Examination, June 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 questions 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.
- Explain Electronegativity in brief. i. a)
 - Write in brief about Nitrene.

Total No. of Questions: 5/ rgpvonline.com

- Write a note on hybridization with suitable examples.
- What is optical activity? Describe R and S configuration with its sequence rules.

OR

What are carbocations? Explain its stability and reactivity with suitable examples.

- Define Chirality and racemic modification. 2. a)
 - State and explain: Markovnikov's rule. b)
 - Write a note on halogenations of Alkanes.
 - Give general methods for the preparation of Alkyne and Alkene.

Discuss the orientation and reactivity of Nucleophilic Aromatic substitution.

- Explain in brief Aldol condensation.
 - Explain dehydration of alcohol. b)
 - Give methods of preparations of Phenols.
 - Discuss SN1 and SN2 reactions of alkyl halides.

OR

What is aromaticity? Explain aromatic character of benzene and naphthalene.

- Give any two chemical properties of aldehyde. 4.
 - Give any two method of preparation of carboxylic acid. b)
 - Write a short note on Williamson's synthesis.
 - Discuss with suitable examples nucleophilic addition reaction of carbonyl compounds.

OR

Compare E1 and E2 mechanism in detail.

- Discuss basic character of amines. 5.
 - What are Dienes?
 - How will you differentia primary, secondary and tertiary amines?
 - Describe preparation and synthetic utility of diazonium salts.

OR

Enumerate various derivatives of carboxylic acids. rgpvonline.com

rgpvonline.com or