

Code: 15R00201

**R15**

B.Pharm I Year II Semester (R15) Regular & Supplementary Examinations June 2018  
**PHARMACEUTICAL ORGANIC CHEMISTRY – II**

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Explain about the stability of phenoxide ion.
  - Discuss about the Williamsons synthesis.
  - Write about significance of Huckel's rule.
  - Discuss about the benzyne ion concept.
  - Oxidation and reduction reaction of naphthalene.
  - Draw the possible resonance structures of phenanthrene.
  - Outline about decarboxylation.
  - Discuss about the stability of carboxylate anion.
  - What is mean of diazotization reaction?
  - Explain about the basicity of amines.

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Outline the preparation methods of alcohols.
- OR**
- 3 Explain in detail about the characteristic reactions of alcohols.

**UNIT – II**

- 4 Discuss about low reactivity of halobenzene towards nucleophilic substitution reaction.
- OR**
- 5 Write about the characteristic reactions of benzene.

**UNIT – III**

- 6 Write the preparation methods of naphthalene.
- OR**
- 7 Give an account on electron density and reactivity of polynuclear aromatic hydrocarbons.

**UNIT – IV**

- 8 Explain in detail about methods of preparation of carboxylic acid.
- OR**
- 9 Write about the Hofmann's degradation of amides.

**UNIT – V**

- 10 Write about the two important methods of preparation of isonitriles.
- OR**
- 11 How will you distinguish primary, secondary and tertiary amines?

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