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Code: 13R00105

B.Pharm I Year (R13) Supplementary Examinations June 2018

# PHARMACEUTICAL ORGANIC CHEMISTRY - I

Time: 3 hours Max. Marks: 70

#### PART - A

(Compulsory Question)

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1 Answer the following:  $(10 \times 02 = 20 \text{ Marks})$ 

Briefly explain on:

- (a) Walden Universion.
- (b) Oxidation reduction reactions of phenanthrene.
- (c) Orientation of electron with drawing groups in mono-substituted benzene.
- (d) Kharasch effect.
- (e) Stability of carboxylate ion.
- (f) Synthesis of nitrites.
- (g) Effect of refractive index on structure of organic molecules.
- (h) Reduction of aromatic nitro compounds.
- (i) Concept of hybridization in organic molecules.
- (j) Relative reactivity of exchange compounds.

### PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

## UNIT - I

- 2 (a) Discuss the mechanism of free radial substitution in alkanes.
  - (b) Explain Sachse-Mohr theory.

OR

3 Discuss in detail the electronic effects in organic molecules.

#### UNIT - II

4 Explain the mechanism and stereochemistry of electrophilic addition reactions of alkenes.

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- 5 Describe:
  - (a) Acidity of alkynes.
  - (b) Factors affecting substitution reactions.

### UNIT - III

6 Discuss the chemistry of arenas and the benzyne ion concept.

OR

7 Explain the structure and stability of benzene.

## [UNIT - IV]

What do you mean by diazotization reactions? Explain any three reactions of diazonium salts.

OR

- 9 Mention:
  - (a) The relative reactivity of primary, secondary of tertiary alcohols.
  - (b) The action of hydro iodic acid on ethers.

### [UNIT - V]

- 10 (a) Write two important methods of preparation carboxylic acids.
  - (b) Write the reaction and mechanism involved in Aldol condensation.

OR

- 11 (a) Enumerate the important reactions of carbonyl compounds.
  - (b) Write a detail note on hofmann degradation of amides.