Code: 13R00105

R13

B.Pharm I Year (R13) Supplementary Examinations June 2017

PHARMACEUTICAL ORGANIC CHEMISTRY – I

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

*****

1 Answer the following: (10 X 02 = 20 Marks)

Discuss the following with their mechanisms:

(a) Friedel Crafts Acylation.
(b) Keto-enol tautomerism.
(c) Hyperconjugation.
(d) Kekule structure.
(e) Kharasch effect.
(f) Walden inversion.
(g) Reaction of carbonyl compounds with Grignard reagent.
(h) Fries rearrangement.
(i) Sandmeyer reaction.
(j) Acidity of phenols.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

2 With examples, explain the hybridization techniques in organic molecules.

OR

3 Discuss the stability of cyclohexanes. Add a note on Sachse Mohr theory.

UNIT - II

4 Enumerate the electrophilic addition reactions of conjugated alkadienes.

OR

5 Explain the mechanism, stereochemistry and kinetics of elimination reactions.

UNIT - III

6 Illustrate with examples the Benzyne ion concept.

OR

7 Describe the reactivity and orientation effect in monosubstituted benzenes.

UNIT - IV

8 What are alcohols? Discuss their chemistry and general methods of preparation.

OR

9 What do you mean by diazotization? Explain the general reactions of diazonium salts.

UNIT - V

10 What is aldol condensation? Illustrate the relative reactivities of carbonyl compounds.

OR

11 Enumerate the acid derivatives. Discuss their methods of preparation.

*****