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### Code: 15R00303

# B.Pharm II Year I Semester (R15) Supplementary Examinations June 2017 **PHARMACEUTICAL ORGANIC CHEMISTRY – III**

Time: 3 hours

PART – A

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
  - (a) Enlist any two drugs containing quinoline ring.
  - (b) Comment on reactivity of furan.
  - (c) Define racemic mixture.
  - (d) What is optical activity?
  - (e) Define disaccharides and mutarotation.
  - (f) Give any two examples of heteropolysaccharides.
  - (g) Define derived protein? Give any one example.
  - (h) Define acid value and peroxide value.
  - (i) Enlist catalyst/reagents involved in: (i) Curtius rearrangement. (ii) Birch reduction.
  - (j) Enlist catalyst involved in: (i) Wittig reaction. (ii) MPV reduction.

#### PART – B

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

### UNIT – I

2 Describe structure, aromaticity and reactivity of imidazole. Give any two methods of synthesis and any two chemical reactions of imidazole.

#### OR

3 Describe structure, aromaticity and reactivity of pyrimidine. Give any two methods of synthesis and any two chemical reactions of pyrimidine.

# UNIT – II

4 Give a brief account on Stereoselective and Stereospecific reactions.

OR

5 Discuss in detail E & Z, Cis/trans configuration with example.

#### UNIT – III

6 What are carbohydrates? Give its classification. Discuss in detail Osazone formation reaction.

OR

7 What are glycosides? Give its classification. Comment on structure and physiological importance of anthraquinone glycosides.

# UNIT – IV

8 What are proteins? Give its classification. Explain any three color reactions of proteins.

OR

9 What are lipids? Give its classification. Explain how you will compare fat and wax, based on their properties.

# UNIT – V

10 Describe Beckmann reaction in detail. Give one example of its application in drug synthesis.

OR

11 Write short notes on the following:

(a) Oppenauer oxidation.

(b) Michael addition.

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Max. Marks: 70