

Code: 15R00303

R15

B.Pharm II Year I Semester (R15) Regular Examinations November 2016

PHARMACEUTICAL ORGANIC CHEMISTRY – III

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

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

- Enlist any two drugs containing indole ring.
- Comment on reactivity of thiophene.
- Define racemic mixture.
- What is absolute configuration?
- Define monosaccharides and mutarotation.
- Give any two examples of homopolysaccharides.
- Define conjugated protein. Give any one example.
- Define saponification value and iodine value.
- Enlist catalyst/reagents involved in: (i) Michael addition. (ii) Oppenauer oxidation.
- Enlist catalyst involved in: (i) Beckmann rearrangement. (ii) Curtius rearrangement.

PART – B

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

UNIT - I

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

OR

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

UNIT - II

4 Give a brief account of stereo selective and stereo specific reactions.

OR

5 Discuss in detail syn and anti configuration with example.

UNIT - III

6 What are carbohydrates? Describe oxidation and reduction reactions of carbohydrates.

OR

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

UNIT - IV8 What are proteins? Give its classification. Explain any two color reactions of proteins. Comment on isoelectric p^H .**OR**

9 What are lipids? Give its classification. Comment on hydrogenation and rancidity of oils and fats.

UNIT - V

10 Describe MPV reduction in detail. Give one example of its application in drug synthesis.

OR

11 Write a note on: (a) Wittig reaction. (b) Birch reduction.
