

Code: 15R00303

**R15**

B.Pharm II Year I Semester (R15) Supplementary Examinations June 2018

**PHARMACEUTICAL ORGANIC CHEMISTRY – III**

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- What is optical activity?
  - What is chirality?
  - What are glycosides?
  - Write about mutarotation.
  - What is meso compound?
  - Write about E and Z configuration.
  - What is rancidity of oils and fats?
  - Name any two drugs containing benzimidazole ring.
  - Write the structures of imidazole and oxazole.
  - What is isoelectric point?

**PART – B**

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

**UNIT – I**

- 2 Write the important reactions and synthesis of pyrrole and pyrazole.

**OR**

- 3 Discuss important reactions and synthesis of oxazole and thiazole.

**UNIT – II**

- 4 Write a note on raceme mixture and various methods for the resolution of racemic mixture.

**OR**

- 5 What are elements of symmetry? Write about stereo selective and stereo specific reactions.

**UNIT – III**

- 6 Write about optical activity of biphenyl compounds. Write a note on sequence rule.

**OR**

- 7 Explain the pyranose structure and important reactions of glucose.

**UNIT – IV**

- 8 Write important methods of preparations of amino acids. Write the structure and chemistry of insulin.

**OR**

- 9 Write in detail about CTAA and NTAA concept and peptide synthesis.

**UNIT – V**

- 10 Write the reaction mechanism and applications of Mannich reaction and Michael addition reactions.

**OR**

- 11 Write the reaction mechanism and applications of Wittig reaction and oppenauer oxidation.

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