

B.Pharm II Year I Semester (R15) Supplementary Examinations June 2017

PHARMACEUTICAL ORGANIC CHEMISTRY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 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.