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Code: 13R00303

B.Pharm II Year I Semester (R13) Supplementary Examinations November 2016 **PHARMACEUTICAL ORGANIC CHEMISTRY – II**

Time: 3 hours

PART – A

Max. Marks: 70

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) Write the structure and uses of Benzimidazole.
 - (b) Write the synthesis of Oxazole.
 - (c) What is Syn and Anti configuration?
 - (d) What is plane polarized light?
 - (e) What is Alpha Glycosidic linkage?
 - (f) Define acid value and give its significance.
 - (g) What is Oxytocin? And write its functions?
 - (h) Define waxes and write their uses.
 - (i) Write the reaction mechanism of Schmidt reaction.
 - (j) Write about Neighboring Group effect.

PART – B

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

UNIT - I

- 2 Discuss in detail about the following:
 - (a) Aromaticity pyrrole, thiophene and furan.
 - (b) Electrophilic substitution reactions of indole.

OR

3 Explain the following:

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- (a) Basicity of pyrrole and pyridine.
- (b) Nomenclature of six membered heterocylic aromatic compounds.

UNIT - II

- 4 Define optical activity and explain in detail about sequence rules.
 - OR
 - Briefly explain the following: (a) Enantiomers. (b) Recemic mixture. (c) Meso compounds. (d) Relative configuration.

UNIT - III

6 Define carbohydrates and explain: (a) mutarotation. (b) Ring structure of glucose.

OR

- 7 Explain the following in brief:
 - (a) Nomenclature of carbohydrates.
 - (b) Osazone formation.
 - (c) Structure of cellulose and starch.

UNIT - IV

8 Define and classify amino acids and give any two preparation methods of α -amino acids.

OR

- 9 Write in detail about the following:
 - (a) Peptide synthesis. (b) Determination of C-terminal and N-terminal amino acids.

UNIT - V

Write the reaction mechanism and applications of:(a) Beckmann rearrangement. (b) Oppenauer oxidation.

OR

11 Write the reaction mechanism of: (a) Mannich reaction. (b) M P V reaction. **WWW.FirstRanker.com**