

Bachelor of Pharmacy (B. Pharm) Fifth Semester (Old-CBS)
BP502 - Pharmaceutical Organic Chemistry – III

P. Pages : 1

Time : Three Hours



GUG/W/18/1171

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
 2. Assume suitable data wherever necessary.
 3. Discuss the reaction, Mechanism wherever necessary.
 4. Que. No. **1** is compulsory. Solve **any four** que. from the remaining.

1. Explain **any four** of the following. **16**
 - a) Give Haworth Synthesis of Anthracene.
 - b) Differentiate between fats, oil and waxes.
 - c) Write a note on Mutarotation.
 - d) Explain chichibabin reaction.
 - e) Draw and explain molecular orbital picture of pyrrole.
2. What are polypeptides. Discuss in detail the C-terminal and N – terminal residue analysis of peptides. **16**
3. Give in detail account of various reactions of fatty acids (Fats and oils) **16**
4. a) Classify the Carbohydrate with suitable examples and give in brief Killiani fisher synthesis of Carbohydrate. **8**
b) Explain in detail the reactions of monosaccharide. **8**
5. What are amino acid, explain isoelectric point of amino acid, and give various methods for it's synthesis. **16**
6. a) Explain nucleophilic substitution reactions of pyridine. **8**
b) Give the methods of preparation of furan. **8**
7. Write a note on following **any four**. **16**
 - a) Fischer Indole Synthesis.
 - b) Synthesis of Naphthoic from Naphthalene.
 - c) Haworth and Fircher projections of glucose and fructose.
 - d) Skraup synthesis.
 - e) Sphingolipids.
