



International Islamic University Chittagong

Department of Pharmacy

Program: B. Pharm (Hons)

Examination: Final

Session: Spring-2018

Course Code: Pharm-2303

Course Title: Organic Pharmacy-II

Full Marks: 50

Time: 2 Hours and 30 Minutes

Group A (Marks: 20)

Answer any two questions

1. Define angle strain, equatorial and axial hydrogens. 3
2. Explain the chemical properties of different alicyclic compounds. 3
3. Draw the different conformations of cyclohexane. Why chair conformation is more stable than any other conformation? 4
4. What is enantiomers and racemic mixture? 2
5. Evaluate the preparation of cellulose from cotton. 5
6. Compare between disaccharides and polysaccharides. 3
7. How can you convert an aldose into the next higher ketose? 3
8. Show the structure of-i) Sucrose, ii) alpha D Glucose, iii) beta D Fructopyranose, iv) Aldotetrose 4
9. Summarizes the classification of carbohydrates. 3

Group B (Marks: 30)

Answer any three questions

1. Deduce the extraction procedure of fats. 4
2. How can you manufacture of vegetable ghee from oils? 5
3. Define detergent and classify it. 3
4. Justify the superiority of detergent over soaps. 2
5. Discuss the types, causes and remedy of rancidity. 3
6. Illustrate the pharmaceutical applications of lipid. 2
7. a) Define the following terms i) Zwitter ion, ii) Isoelectric point, iii) Peptide linkage, iv) Denaturation of protein. 4
8. b) Outline the reactions for synthesis of alpha amino acids. 3
9. c) Describe how C terminal and N terminal amino acids are identified in a peptide linkage? 3
10. a) Briefly explain the common methods of protein precipitation 4
11. b) Describe different colour tests for protein identification. 4
12. c) Classify protein according to functions. 2