



International Islamic University Chittagong

Department of Pharmacy

Program: B. Pharm (Hons)

Examination: Final

Session: Spring-2022

Course Code: Pharm-1203

Course Title: Pharmacognosy and Phytochemistry-I

Full Marks: 50

Time: 2 Hours and 30 Minutes

[N.B: Answers of separate groups must be written in separate script]

Group A

Answer any two questions

Marks: 20

1. a) What do you understand about vitamins? Point out the deficiency diseases of different vitamins. 4
c) Illustrate the chemical constituents and pharmaceutical importance of Cod fish liver oil. 2
d) Mention the biological sources and chemical constituents of Hilsha fish liver oil. 4
2. a) Define lipids? Differentiate among oil, wax and fat. 4
b) Point out the sources, chemical constituents and pharmaceutical importance of shark liver oil. 3
c) Define acid value iodine value and identify the significance of acid value and iodine value to determine the quality of fat. 3
3. a) Write down sources, chemical constituents and medicinal uses of olive oil. 4
b) Describe the sources, chemical constituents and medicinal uses of linseed oil. 4
c) Classify bees wax. Write down the differences between white wax and yellow wax. 2

Group B

Answer any three questions

Marks: 30

4. a) Note down the importance of alkaloids in plant. 3
b) Differentiate among true, proto and pseudo alkaloids. 4
c) Illustrate different qualitative test methods of alkaloids. 3
5. a) Write down the chemical constituents and medicinal uses of Hyoscyamus plant. 5
b) Give official sources, chemical constituents and medicinal uses of hemlock. 5
6. a) What do you mean by extraction? Classify different extraction methods. 3
b) Define chromatography. State the principles of chromatography. Sketch the mechanisms of separation compounds from mixture of compounds. 4
c) Point out the significance column chromatography. 3
7. a) What is fiber? Briefly describe on natural fibers used in pharmaceutical industry. 5
b) Define surgical dressing. Describe different types of surgical dressing. 5