UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES SECOND YEAR SECOND SEMESTER EXAMINATION IN BPharmHons - 2023 PHACG 2223 PHARMACOGNOSY II

Date: 22.05.2025 Time: 02 Hours

Answer All Four Questions.

4.2

Answer Part A & Part B in separate answer books

PARTA 1. Define mutarotation. (10 Marks) 1.1 1.2 Write a short account on Tragacanth. (20 Marks) Briefly describe a method to determine the total sugar content in the crude 1.3 (20 Marks) drug mentioned in 1.3. PART B Define proteomics. (10 Marks) 1.4 Briefly explain the different protein isolation methods. (40 Marks) 1.5 2. 2.1 List the chemical properties of alkaloids. (20 Marks) (30 Marks) 2.2 Briefly explain the principle behind the isolation of alkaloids. 2.3 Write a short note on, 2.3.1 quinoline alkaloids. (25 Marks) (25 Marks) 2.3.2 physostigmine. 3. Define glycosides. (15 Marks) 3.1 (40 Marks) Classify glycosides and give one (01) example for each class. 3.2 List the physical properties of terpenoids. (20 Marks) 3.3 (25 Marks) 3.4 Write a short note on menthol. 4. (10 Marks) 4.1 Define saturated fatty acids.

(50 Marks)

(40 Marks)

Explain the biosynthetic pathway of docosahexaenoic acid (DHA).

Briefly discuss the analytical parameters used to ensure the quality of oils.