## UNIVERSITI OF JAPPINA, SKI DANKA

## FACULTY OF ALLIED HEALTH SCIENCES

## SECOND YEAR SECOND SEMESTER EXAMINATION IN BPharmHons - 2022 PHACG 2223 PHARMACOGNOSY II

Time: 02 Hours Date: 24.06.2024 Answer All Questions. Medical Librar Answer Part - A & Part - B in separate answer books SCULTY OF MEL PART - A (10 Marks) 1.1.1 Define Mutarotation. 1.1 1.1.2 When  $\alpha$ -D-glucose is dissolved in water, the optical rotation of the (20 Marks) solution slowly changes from the initial value of + 112.2° to an equilibrium value of + 54°. Explain it. (20 Marks) 1.1.3 Write a short note on Tragacanth. PART - B Define unsaturated fatty acids with examples. (10 Marks) 1.2 Outline the pharmaceutical uses of (10 Marks) 1.3.1 Docosahexaenoic acid (DHA). (10 Marks) 1.3.2 Eicosapentaenoic acid (EPA). (20 Marks) Briefly explain the preparation of beeswax. 1.4 (10 Marks) 2.1 Define alkaloids. 2. List the function of alkaloids in plants. (15 Marks) 2.2 Briefly explain the biosynthetic reactions involved in the biosynthesis of (50 Marks) 2.3 alkaloids. Briefly discuss the importance of isomerization in the therapeutic effect of the (25 Marks) 2.4 alkaloidal drugs. (15 Marks) 3.1 Define glycosides. Explain the role of glycosides in plants. (35 Marks) 3.2 Write a short note on followings: 3.3 3.3.1 cardiac glycosides. (15 Marks) (15 Marks) 3.3.2 saponin glycosides. (20 Marks) 3.3.3 cyanogenic glycosides. 4.1 (10 Marks) **4.1.1** Define monoterpenoids. **4.1.2** Briefly explain steps involved in preparation of camphor. (20 Marks) Briefly discuss the application of proteomics in medicine. (30 Marks) 4.2.

Write down the functions of carotenoids in plants.

Briefly explain the properties and uses of Lycopene.

4.3

4.4

(15 Marks)

(25 Marks)