UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION IN BPHARM (HONS.)- 2021 PHACO 3124 CHEMISTRY OF NATURAL PRODUCTS

Date: 06.03.2023

Time: 03 Hours

Medical Library

Answer All EIGHT Questions.

Answer Part A, Part B in separate answer books

PART A

]	1.2	1.1.1 Mutarotation 1.1.2 Glycosylation	(10 Marks) (10 Marks) (30 Marks) (50 Marks)
2	. 2.1	PART B Define alkaloids.	
	2.2	and antarolds.	(10 Marks)
	2.3	and the enemical characteristics of alkaloids.	(45 Marks)
	2.4	tariotism of analolds in plants.	(25 Marks)
	<i>4.</i> ¬r	Discuss the therapeutic importance of isomers of alkaloidal drugs.	(20 Marks)
3.	3.1	Write a short on Piperine alkaloid.	(40 % /)
	3.2	Briefly explain the steps involved in the isolation of alkaloids from plants.	(40 Marks) (60 Marks)
4.	4.1 4.2 4.3	Define glycosides. Explain the physicochemical properties of glycosides. Write a short note on, 4.3.1 cardiac glycosides.	(10 Marks) (30 Marks) (20 Marks)
		4.3.2 thioglycosides.	(15 Marks)
		4.3.3 liquorice.	(25 Marks)
5.	5.1 5.2	Define unsaturated fatty acids. List the pharmaceutical uses of 5.2.1 Docosahexaenoic acid (DHA).	(15 Marks)
		5.2.2 Eicosapentaenoic acid (EPA).	(20 Marks)
	5.3	Write a short note on,	(15 Marks)
		5.3.1 palmitic acid5.3.2 triglycerides.	(20 Marks) (30 Marks)
6.	6.1	Define monoterpenoids.	(10 Marks)
	6.2 6.3	Write a short note on lycopenes.	(20 Marks)
	6.4	List the pharmaceutical applications of volatile oils. Explain the pharmaceutical uses of camphor.	(40 Marks)
		and pharmacouncar uses of campnor.	(30 Marks)

7.	7-1	Write down the physicochemical properties of amino acids.	(30 Marks)
	7.2	List the pharmaceutically important enzymes.	(20 Marks)
	7.3	Write a short note on gelatin.	(50 Marks)
8.	8.1	Write down the functions of carotenoids in plants.	(20 Marks)
	8.2	Briefly explain the properties and uses of	(======================================
		8.2.1 Lycopene.	(30 Marks)
		8.2.2 Vitamin A.	(50 Marks)