GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. SEMESTER -V• EXAMINATION –WINTER-2022

Subject Code: BP503TPDate:30/12/202Subject Name: Pharmacognosy and phytochemistry IITime: 10:30am to 01:30pmTime: 10:30am to 01:30pmTotal Marks: 8Instructions:Total Marks: 8			
1. 2.	Attempt any five questions.		
Q.1	(a)	Explain Shikimic acid pathway with chemistry.	06
	(b)	Write in detail about acetate mevalonate pathway.	05
	(c)	Define and classify Alkaloids. Explain the chemical classification of alkaloids with suitable examples.	05
Q.2	(a)	Differentiate between Pale catechu and Black catechu.	06
	(b)	Discuss in detail about pathway for biosynthesis of lipids in plants.	05
	(c)	Write different methods of tracer techniques in the investigation of Biogenetic studies.	05
Q.3	(a)	Describe Isolation, Identification and Analysis of menthol.	06
	(b)	Define extraction. Explain different modern methods of extraction in brief.	05
	(c)	Give method for isolation and estimation of Forskolin.	05
Q.4	(a)	Give exhaustive note on cardiac glycoside.	06
	(b)	Write a note on production and estimation of Sennosides.	05
	(c)	Give significance of HPTLC in isolation, purification and identification of crude drugs.	05
Q.5	(a)	Write method for isolation of citral and Rutin.	06
	(b)	Describe a suitable method for production and estimation of Diosgenin.	05
	(c)	Discuss significance of Electrophoresis in the isolation and purification of phytoconstituents.	05
Q. 6	(a)	Define and classify glycoside. Write source, chemical constituents and uses of Aloes.	06
	(b)	Write source, chemical constituents and uses of Bezoin and Ginger.	05
	(c)	Give source, chemical constituents and uses of Vinca and Opium.	05
Q.7	(a) (b)	Give the source, isolation and identification method of Glycyrrhetinic acid. Write the biological source, isolation and estimation method of	06 05
		Podophyllotoxin.	
	(c)	Write note on pharmacognosy of Myrrh.	05

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