Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. – SEMESTER V – EXAMINATION – WINTER -2020

Subj	ect (Code: BP503TP	Date: 07/01/2021	
Subj	ect N	Name: Pharmacognosy and Phytochemistry - I	I	
		:30AM TO 12:30PM	Total Marks: 54	
Instru				
1.		empt any THREE questions from Q-1 to Q-6.		
2.		is compulsory to attempt. ke suitable assumptions wherever necessary.		
3. 4.		res to the right indicate full marks.		
Q.1	(a)	Write a detailed note on use of types of radioisotopes an in biogenetic studies.	d their characteristics	06
	(b)	Write the biogenetic pathway of amino acids.		05
	(c)	Write the sources and types of alkaloids present in rauw	olfia.	05
Q.2	(a)	Write a detailed note on methods used to apply/feed rad plants during biogenetic studies.		06
	(b)	Write the method of isolation and analysis of menthol.		05
	(c)	Write industrial production and utilization of caffeine.		05
Q.3	(a)	Explain the terms extraction and isolation with the help methods of extraction.	of example. Enumerate	06
	(b)	Write the application of latest spectroscopic techniques in Phytochemistry. 05		
	(c)	Write a note on application of HPTLC-MS technique in phytoconstituents.	•	05
Q.4	(a)	Write a note on glycosides resent in dioscorea. Explain reactions the commercial application of disogenin.	with the help of	06
	(b)	Write a note on general introduction of glycosides. Diffe of cardiac glycosides.	erentiate between types	05
	(c)	Write chemistry, sources and uses of guggul.		05
Q.5	(a)	Write isolation, identification and analysis of artemisin.		06
	(b)	Write isolation, identification and analysis of glycyrhhei	tinic acid	05
	(c)	Write isolation, identification and analysis of quinine.		05
Q. 6	(a)	Write the industrial production and utilization of vincris	tine and vinblastine.	06
	(b) (c)	Write estimation and utilization of sennosides. Write industrial production method and estimation method	and of forskolin	05 05
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Q.7	(a)	Write the chemistry, composition and commercial application present in belladonna.	cation of alkaloids	06
		OR		^ -
	(a)	Write a note on chemistry of alkaloids present in opium OR		06
	(a)	Write a note on chemical classification of flavonoids. Wapplication of rutin.	rite the commercial	06
