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Enrolln	nent 1	No: Exam Seat No C.U.SHAH UNIVERS			
		Winter Examination-20	J21		
Subject	Nam	e: Pharmacognosy and Phytochemistry II – Theo	ry		
Subject Code: BP504T		e: BP504T Branch: B.Ph	Branch: B.Pharm		
Semeste	er: 5	Date: 22/12/2021 Time: 11:00	Го 02:00	Marks: 75	
(2) (3)	Use of Instru Draw	of Programmable calculator & any other electronic in actions written on main answer book are strictly to be neat diagrams and figures (if necessary) at right placeme suitable data if needed.	obeyed.	hibited.	
Q-1		Attempt the following questions:		(20)	
	a) b) c) d) e) f) g) h) i)	Write different chemical tests for identification of A Draw a neat and labelled diagram of Fennel Fruit. Write about biological source, chemical constituents Describe Borntrager's and modified Borntrager's test Explain the identification tests for Caffeine. Write about biological source, phytoconstituents and Write about biological source, chemical constituents Give brief account on chemical constituents of Gugg Write about biological source, phytoconstituents and Write shortly about chemical constituents of Digitalian	s and uses of Clest. If uses of Dioscos and uses of Tagul and their uses of Tea.	orea. xus.	
Attemp	t the	following questions:			
Q-2	A	Attempt any two of following: Describe Shikimic acid pathway with the formation metabolites through it.	of major second	(20) dary 10	
	В	Write about biosources, chemistry, chemical classes alkaloids.	and uses of Op	oium 10	
	C	Explain the industrial production, estimation and uti following phytoconstituents: i) Sennosides ii) Vincristine	lization of the	10	
Q-3	A	Attempt any Seven of following: Explain different chromatographic methods used for	isolation,	(35) 5	

	В	alkaloids.	10
	C	Explain the industrial production, estimation and utilization of the following phytoconstituents:	10
		i) Sennosides ii) Vincristine	
Q-3		Attempt any Seven of following:	(35)
	A	Explain different chromatographic methods used for isolation, purification and identification of crude drugs.	5
	В	Give the differences between Black Catechu and Pale Catechu	5
	C	Write about biological sources, chemistry, therapeutic uses and commercial application of Rauwolfia.	5
	D	Describe isolation method and analysis of Caffeine.	5
	\mathbf{E}	Write about industrial production, estimation and utilization of Atropine	5



F	Give brief account on Acetate mevalonate pathway.	5
Ĵ	Write about biological sources, chemistry, therapeutic uses and	5
	commercial application of Liquorice.	
H	Explain isolation, identification and analysis of Curcumin.	5
I	Write about the utilization of radioactive isotopes in the investigation of	5
	biogenetic studies.	

