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SARDAR PATEL UNIVERSITY M.Sc. (IV SEMESTER) EXAMINATIONS 20th MARCH, 2019 (WEDNESDAY) TIME: 2.00 p.m TO 5.00 p.m

PAPER: PS04CBOT22 - BIOCHEMISTRY AND MEDICAL BOTANY

TOTAL MARKS: 70

					4	
I.	Ch	oos	e the most app	oropriate answer:		(8 marks)
i)	Wł	nich pro	of the following	ng is/are the most com	mon secondary structu	res found in
		•		b) beta sheet	c) random coils	d) both a) and b)
ii)	An		zyme without it Apoprotein	s non protein moiety i b) coenzyme		d) none of these
iii)	Wl	nich a)	of the following Glucose	ng monosaccharides is b) Sucrose	commonly found in fr	uits? d) Maltose
iv)	The	e m a)	ost suitable dru Digitalis	g for the treatment of b) Licorice	congestive cardiomyop c) Reserpine	oathy is d) Solanine
v)	It i	a)	They are in go		the right time to ensure c) they are no ciple d) none of the	t spoiled
vi)	The		ecursors for alk Phenols	caloid biosynthesis are b) amino acids	e) Lipids	d) Proteins
vii)	Ent	flue a)	rage is a metho Essential oils	d commonly used for b) alkaloids	the separation of c) steroids	d) Glycosides
viii)			oles of <i>Rauwolfia</i> are n b) analgesic	nainly used as a c) antipyretic	d) hypotensive
II.	Wr	i) ii) iii) v) vi) vii) viii	Unsaturated fa Nitrogenase co Steam distillat Uses of Ergot	es prosthetic groups atty acids complex ion alkaloids and its uses		(14 marks)
				(1)		(P.T.O.)

П	I.Answer in detail					
۱.	A) Give a detailed account of simple and complex carbohydratesB) What are triglycerides? Write briefly on saturated and unsaturated fatty acids	(6) (6)				
	OR					
	B) Describe the secondary structure of proteins. What are the cellular functions of proteins?	(6)				
2.	A) Give a comparative account of lock and key and induced fit model for enzyme –					
	substrate interaction.					
	B) What are cofactors? Write the types of cofactors. What is their role in enzyme					
	function?	(6)				
	' OR	` ,				
	B) Describe the various systems of classification of crude drugs	(6)				
3.	A) Write in detail on the methods and significance of collection of crude drugs from plants.					
	B) Describe the biosynthesis of alkaloids from Tryptophan					
	OR					
	B) Give an account of the cultivation, collection and uses of Senna	(6)				
4.	A) Explain the chemical tests for Vinca alkaloids. Briefly write on the active					
	principles and uses of Vinca alkaloids.					
	B) What are essential oils? Explain the various methods used for the separation					
	of essential oils from plants.	(6)				
	OR					
	B) Write notes on					
	(i) Coca (ii) Opium	(6)				

XXXXXXXXX

