Seat No.:		Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSITY		
		M.PHARM- SEM-I-EXAMINATION – JULY 2012		
Subject code: 910201			Date: 07/07/2012	
•		me: Chemistry of Natural Products		
Time: 02:30 pm – 05:30 pm		) pm - 05:30 pm   Total M	Total Marks: 80	
	ruction			
2.	Make	pt any five questions. suitable assumptions wherever necessary. es to the right indicate full marks.		
Q.1	(a) (b)	Define and classify carbohydrates. Prove the structure of sucrose. Describe chemistry of cellulose.	08 08	
Q.2	(a)	What are amino acids? Enlist method of synthesis of amino acids and discuss in detail any three methods.	08	
	(b)	Discuss structure and chemistry of oxytocin.	80	
Q.3	(a)	What are alkaloids? Classify them with example. Discuss steps involved in determination of molecular structure of alkaloids.	08	
	(b)	Discuss chemistry of ergotamine.	80	
Q.4	(a)	What are steroids? Disccuss nomenuclature and stereochemistry of steroids.	80	
	(b)	Give the general methods of synthesis and reaction of pyrazole.	80	
Q.5	(a)	Enlist five member heterocyclic ring systems and discuss biological importance of it. Write synthesis and reactions of pyrimidine.	80	
	(b)	Discuss chemistry of 2,6,8 trihydroxy purine.	80	
Q. 6	(a) (b)	What are anthocyanins. Discuss in detail isoflavones. Write a note on cortisone.	08 08	
Q.7	(a) (b) (c)	What are purines and nucleic acids. Discuss structure of nucleosides Biosynthesis of vit. D3 Structure of angiotensin.	06 05 05	

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