Seat No.:	Enrolment No.
Scat 110	

## GUJARAT TECHNOLOGICAL UNIVERSITY

M.Pharm Semester –I Examination Feb. - 2012

Subject code: 910201 Date: 15/ Subject Name: Chemistry of Natural Products Time: 10.30 am – 01.30 pm Total Ma			te: 15/02/2012	
		rks: 80		
Instru	2. Ma	s: tempt any five questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.		
Q.1	(a) (b) (c)	What are carbohydrates? Classify them with examples. Discuss the structure of maltose. Write a note on polysaccharides.	06 05 05	
Q.2	(a) (b) (c)	What are steroids? Give nomenclature and stereochemistry of steroid. What are purines? Give the general method of synthesis of purine. What is nucleic acid? Give the structure and function of RNA.	06 05 05	
Q.3	(a) (b) (c)	What are heterocyclic compounds? Give method of synthesis and reactions of pyridine.  Discuss biological importance of heterocycles.  Define and classify alkaloids. Discuss the structure of morphine.	06 05 05	
Q.4	(a) (b) (c)	Define and classify proteins. Discuss the structure of proteins. What are polypeptides? Give the methods of synthesis of polypeptide. Discuss the structure of angiotensin II	06 05 05	
Q.5	(a) (b) (c)	What are anthocyanins? Discuss general methods for the synthesis of anthocyanins. Give the general methods of synthesis and reactions of Imidazole. What are flavones and flavanoids? Give biological importance of flavones and flavanoids.	06 05 05	
Q. 6	(a) (b) (c)	Define and classify amino acids. Discuss any three synthesis methods of amino acid. Discuss the chemistry of cellulose Write a note on lignin and pectin	06 05 05	
Q.7	(a) (b) (c)	Write short note on: SAR of glucocorticoids Vitamin D <sub>3</sub> Phodophyllum alkaloid	06 05 05	

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