Seat No.:	Enrolment No.

Subject code: 910201

GUJARAT TECHNOLOGICAL UNIVERSITY M. PHARM. - SEMESTER - I • EXAMINATION - WINTER 2012

Date: 11/01/2013

Subject Name: Chemistry of Natural Products Time: 10.30 am - 01.30 pm Total Marks: 80 Instructions:				
Q.1	(a) (b) (c)	What are carbohydrates? Prove ring structure of gluck Write a note on peptic substances. What are polysaccharides? Write a note on heteropoly	05	
Q.2	(a) (b) (c)	What are proteins? Classify them. Give any two meth synthesis of amino acids. Discuss the chemistry of angiotensin Discuss in detail end group analysis.	06 ods of 05 05	
Q.3	(a) (b) (c)	What are alkaloids? Classify them. Give general methods of degradation of alkaloids. Prove the structure of ergotamine.	06 05 05	
Q.4	(a) (b) (c)	What are steroids? Discuss stereochemistyry of steroid Discuss the chemistry of cholesterol. Write a note on flavones and flavonoids.	ds. 06 05 05	
Q.5	(a) (b) (c)	What are heterocyclic compounds? Give the Hantzsch pyridine. Why furan, thiopene and pyrrole are aromatic? Give reactions of thiophene. Give the synthesis and reactions of pyrimidine.	•	
Q. 6	(a) (b) (c)	What are nucleic acids? Give the functions of RNA. What are purines? Give brief account of purine and p bases. Discuss structure of DNA	96 yrimidine 95 95	
Q.7		Write short notes on:a) SAR of glucocorticoidsb) Lignin and pectinsc) Podophyllum alkaloids	16	
