GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2015 Subject Code: 910105 Date: 31-12-2015 Subject Name: Chemistry of Medicinal Natural Products			
Tim Instr	uctio 1. 2.	0:30 am - 01:30 pm ns: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Total Marks: 80	
Q.1	(a)	Give importance of HPTLC and HPLC in herbal drug analysis.	06
	(b)	Discuss super critical fluid extraction method.	05
	(c)	Discuss – counter current chromatography.	05
Q.2	(a)	Define photosynthesis and write on light cycle of photosynthesis.	06
	(b)	Explain the C-3 cycle of photosynthesis.	05
	(c)	Give biosynthetic pathway for terpenoids.	05
Q.3	(a)	Classify antibiotics. Write on structure elucidation of penicillin.	06
	(b)	Classify glycosides. Write isolation methods for glycosidal drugs.	05
	(c)	Discuss – Biosynthesis of Streptomycin.	05
Q.4	(a)	Give isolation and structure elucidation of vincristine.	06
	(b)	Write a brief note on autacoids.	05
	(c)	Describe classification and biological significance of carbohydrates.	05
Q.5	(a)	Write a note on – Microwave assisted extraction and its application.	06
	(b)	Write a note on Structure of Immunoglobins and their sources.	05
	(c)	Write a note on Carotenoids.	05
Q. 6	(a)	Write sources and method of isolation of podophyllotoxin.	06
	(b)	Define Resins. Classify and give general properties.	05
	(c)	Write sources and isolation method of Taxol.	05
Q.7	(a)	What are Terpenoids? Give properties and classification of them	06
	(b)	Give brief outline of Shikkimic acid pathway.	05
	(c)	Explain stereochemistry of lipids giving suitable examples.	05

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