Seat 1	No.: _	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014	
Subject Code: 910105 Date: 07			
_		Name: Chemistry of Medicinal Natural Products	
		:30 am - 01:30 pm Total Marks: 80	
Instr			
		Attempt any five questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	Enlist anticancer naturally occurring chemical compounds. Explain isolation and purification of vinca alkaloids.	06
	(b) (c)	Give stererochemistry of podophyllotoxin. Write biogenesis of sennosides.	05 05
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Q.2	(a)	What are various methods of obtaining volatile oils and lipids? Elaborate one method of each component.	06
	(b)	Explain microwave assisted extraction method.	05
	(c)	Describe technique and merits of Supercritical Fluid extraction.	05
Q.3	(a) (b) (c)	Discuss important steps involved in commercial production of streptomycin. Write note on naturally occurring anti-fungal agents. Write biogenesis of Penicillins.	06 05 05
Q.4	(a)	Enlist advanced methods of extraction of plant metabolited. Explain flash chromatography.	06
	(b) (c)	Describe in brief autocoids. Explain various chemical constants of fixed oil.	05 05
Q.5	(a)	Outline the salient feature of importance of glycosaminoglycans.	06
	(b)	Expatiate the terminology "Immunoglobines as Plantbiotics"	05
	(c)	What is meant by lipoprotein? What is their biological significance?	05
Q. 6	(a)	Explain biogenesis of an alkaloid derived from tryptophan.	06
	(b)	Write in brief on Calanolides.	05
	(c)	Discuss biological sources & biological activity of Taxol & its precursors.	05
Q.7	(a)	Enumerate different biogenetic pathway of therapeutic important constituents. Elaborate any one of them.	06
	(b)	Explain isolation and purification of Taxol in plant drug.	05
	(c)	Write note on Mucopolysaccharides.	05
