GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – V • EXAMINATION – WINTER 2013

	Subjec Time: Instruct		
	2	 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Define and give the chemical classification of alkaloids.	06
	(b)	Write the Life cycle of Ergot.	05
	(c)	Give the Pharmacognosy of Imidazole alkaloid containing drug.	05
Q.2	(a)	Write the cultivation and collection of Opium.	06
	(b)	Give the microscopy of Periwinkle.	05
	(c)	Write a note on Acetate mevalonate pathway.	05
Q.3	(a) (b) (c)	Differentiate between the Bolivian coca and Peruvian coca. Draw the chemical structure of Atropine, Caffeine, Ephedrine, Physostigmine, and Nicotine. Describe the specific chemical tests of Quinine, Caffeine, Ergotoxine, Ephedrine and Atropine.	06 05 05
Q.4	(a)	Give the stereoisomerism of Alkaloids.	06
	(b)	Write a note on Diterpene alkaloid.	05
	(c)	Differentiate the Egyptian and European Henbane.	05
Q.5	(a)	Write the Properties and functions of alkaloids.	06
	(b)	Write the adulterants of nuxvomica and Rauwolfia.	05
	(c)	Write a note on Kadachhal.	05
Q. 6	(a)	Give the chemical constituents and uses of Veratrum, colchicum and Lobelia.	06
	(b)	Describe the microscopic characters of Ipecac.	05
	(c)	Enlist the Tropane alkaloids and write pharmacognostic profile of any one drug contain it.	05
Q. 7	(a)	Discuss on Tracer technique.	06
	(b)	Describe the Pharmacognosy of Camptotheca.	05
	(c)	Write a note on Shikkimic acid pathway.	05
