Seat N	lo.:	GUJARAT TECHNOLOGICAL UNIVERSITY	
C1-1	4	B.PHARM- SEM-IV-EXAMINATION – MAY 2012	2012
•		e: 240006 Date: 30/05/	ZU1Z
_		ne: Pharmacognosy III am – 01:30 pm	.a. QA
	ructions	•	.s. ou
		ot any five questions. uitable assumptions wherever necessary.	
		s to the right indicate full marks.	
Q.1	(a)	Give structural relationship between anthraquinone and its reduced derivatives.	06
	(b)	Write Borntrager's test and its modification required to identify different derivatives of anthraquinones.	05
	(c)	Write in detail about mechanism of action of anthraquinone glycosides pertaining to their purgative action.	05
Q.2	(a)	Give Differences between i) <i>Ammi Visnaga/ Ammi majus</i> . ii) Purpurea glycosides/ Lanatosides.	06
	(b)	Method of preparation of Cape and Curacao aloe.	05
	(c)	Write a note on Different species of Strophanthus and importance of reaction of H ₂ SO ₄ for them.	05
Q.3	(a) (b)	Write in detail about properties and chemistry of saponins. Write in detail about the methods for estimation of saponins in crude drugs.	06 05
	(c)	Define cyanogenetic glycosides, classify them and give the chemical test for their identification along with the underlying principle.	05
Q.4	(a)	Give classification of enzymes by different methods.	06
•	(b)	Write in chemical tests for papain and amylase.	05
	(c)	Write a detailed note on rutin and its sources.	05
Q.5	(a)	Give Botanical sources, family, chemical constituents and uses of underground drugs containing bitter glycosides.	06
	(b)	Define glycosides, classify them and give their chemistry.	05
	(c)	Give chemical tests for cardenolides and deoxy sugars.	05
Q. 6	(a)	 Comment on following: Star spots are important for identification of Rhubarb Hydroxyl group at C-14 is mandatory for the cardiotonic action of cardiac glycosides. Cascara is to be stored for one year prior to use. 	06
	(b)	Write a note on Ginseng and its adulterants.	05
	(c)	Write structure activity relationship of furanocoumarins pertaining to their photosensitizing action.	05

Q.7