Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM. - SEMESTER– V • EXAMINATION – SUMMER-2016

Subject Code: 2250006 **Date:12/05/2016**

Subject Name: Pharmacognosy - III

Time: 2:30 PM to 5:30 PM **Total Marks: 80**

Instructions:

1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Define Glycosides. Classify them with appropriate examples.	**06**
	(b)	write general method of isolation of glycosides.	**05**
	(c)	Discuss different variety of mustard.	**05**
Q.2	**(a)**	Enlist drug containing bitter glycosides. Discuss chemical constituents and uses of chirata.	**06**
	(b)	Discuss pharmacognosy of Quassia wood.	**05**
	(c)	Draw and describe T.S. of Senna leaf.	**05**
Q.3	**(a)**	Enlist drug containing anthraquinone cathartics. Give chemical test to distinguish different variety of aloe.	**06**
	(b)	Differentiate borntrager's test and modified borntrager's test with principle.	**05**
	(c)	Write a short note on Rhubarb.	**05**
Q.4	**(a)**	Describe cultivation, collection, drying, storage and uses of Digitalis.	**06**
	(b)	Differentiate cardenolides and bufadienolides.	**05**
	(c)	Write short note on cyanogenetic glycosides.	**05**
Q.5	**(a)**	Define plant tissue culture. Discuss nutritional requirement for plant tissue culture.	**06**
	(b)	Write a note on types of culture.	**05**
	(c)	Enlist applications of plant tissue culture. Discuss Artificial seed.	**05**
Q. 6	**(a)**	Define coumarins. Write their therapeutic application with suitable example.	**06**
	(b)	Discuss flavanoid glycosiedes.	**05**
	(c)	Write a note on Hairy root culture.	**05**
Q.7	**(a)**	Define saponins. Write in details about properties and chemistry of saponins.	**06**
	(b)	Discuss chemical constituents and uses of shatavari.	**05**
	(c)	Write pharmacognosy of Liquorice.	**05**

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