GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – VI • EXAMINATION – SUMMER 2013

Subject Code: 260006 Date: 01-06-2013			
Subject Name: Pharmacognosy – V (Plant Bio Technology) Time: 10.30 am - 01.30 pm Total Marks: 80 Instructions:			
111011	1 2	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Discuss techniques for enhancing secondary metabolite production by tissue culture.	06
	(b) (c)	Write a note on medium used for tissue culture. Write in detail about protoplast culture.	05 05
Q.2	(a)	Give Differences between i) Static culture/ Suspension culture. ii) Prebiotics/ Probiotics.	06
	(b) (c)	Method of preparation of Apamarg Kshar and Galo satva. Write a note on different species of Chitrak.	05 05
Q.3	(a) (b) (c)	Write in detail about varieties and properties of Shilajit. Write in detail about the adulterants of Bhangro, Dhamaso and Arjuna. Write a note on a seed drugs used as a brain tonic and as an anthelmintic.	06 05 05
Q.4	(a) (b) (c)	Give classification of terpenoids with suitable examples. Write chemistry of Geraniol. Write a detailed note on tannin containing drugs of your syllabus.	06 05 05
Q.5	(a) (b) (c)	Write a note on a health food from natural source. Give botanical sources, chemical constituents and uses of Karen and Chakramadu. Enlist the drugs containing saponins of your syllabus. Give detail of a seed drug containing them.	06 05 05
Q. 6	(a) (b) (c)	Write a note on biosynthesis of Abietic acid Write a note on electroporation and shotgun methods. Write synthesis of Menthone.	06 05 05
Q. 7	(a) (b) (c)	Write a note on biosynthesis of β -amyrin. Write in detail about chemistry of Vitamin A. Write a note on history of Plant tissue culture.	06 05 05
