

GUJARAT TECHNOLOGICAL UNIVERSITY
B. PHARM. - SEMESTER – VI • EXAMINATION – WINTER 2012

Subject code: 260006**Date: 07/01/2013****Subject Name: Pharmacognosy - V****Time: 02.30 pm - 05.30 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) Discuss in detail requirements to establish a plant tissue culture laboratory.	06
	(b) Write in short on components of culture media and their importance	05
	(c) What is protoplast? Discuss methods of protoplast isolation.	05
Q.2	(a) Give biological source, common vernacular names, chemical constituents of any one plant with galactogogue activity.	06
	(b) Name the flowers used in preparation of arishta and asava. Give biological source, chemical constituents and uses of it.	05
	(c) Give marketed formulations of adusa, shatavari and galo.	05
Q.3	(a) What are terpenoids? Classify them with examples.	06
	(b) Discuss chemistry, synthesis and pharmacological uses of carvone	05
	(c) Give chemistry, synthesis and uses of menthone.	05
Q.4	(a) What are antioxidants? Discuss antioxidants of natural origin.	06
	(b) Write short note on nutraceuticals.	05
	(c) Discuss health benefits of garlic and onion.	05
Q.5	(a) Discuss morphology of galo stem, adusa leaf and kalijiri fruit.	06
	(b) Give biological source, traditional and pharmacological uses of arjuna bark with its marketed formulations.	05
	(c) Discuss in short various species of chitrak	05
Q. 6	(a) Write a note on growth regulators used in culture media.	06
	(b) What is cryopreservation? Discuss its advantages.	05
	(c) Explain the technique micropropagation with its applications.	05
Q.7	(a)	06
	Discuss in detail various types of cultures	
	(b) Write a brief note on morphology and microscopy of Shatavari root	05
	(c)	05
	Prepare a short note on Shilajit	
