

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 260006

Date:11/05/2016

Subject Name: Pharmacognosy-V (Plant Bio-Technology)

Time: 10:30 AM to 1:30 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 Plant tissue culture. Discuss in detail about components of tissue culture medium.	06
	(b)	Write a short note on Organogenesis.	05
	(c)	Write a brief note on Suspension culture.	05
Q.2	(a)	What are Terpenoids? Classify it with suitable examples.	06
	(b)	Write chemical structure, therapeutic & pharmacological activity of Carvon and Geraniol.	05
	(c)	Write a short note on Beta-Amyrin.	05
Q.3	(a)	Explain the terms:(1) Functional food (2) Prebiotic (3) Antioxidant	06
	(b)	Write a short note on PUFA.	05
	(c)	Write in brief about Carotinoids as Neutraceuticals.	05
Q.4	(a)	Give biogenesis and pharmacological activity of Vitamin-A.	06
	(b)	Write chemistry and Pharmacological activity of Pinene and Menthone.	05
	(c)	Write detail pharmacognostic note on drugs used as an Anthelmintic.	05
Q.5	(a)	Write B.S, C.C and marketed formulation of Amala and Satmuli.	06
	(b)	Write short note on Chitrak.	05
	(c)	Draw well labeled cellular diagram of Dhamaso stem T.S	05
Q. 6	(a)	Give the vernacular name, B.S., morphology, pharmacological category, uses and marketed formulation of Malkangani.	06
	(b)	Write short note on Shilajit.	05
	(c)	Define the following terms. (1) Totipotency (2) Callus (3) Explant (4) Cryopreservation (5) Elicitation.	05
Q.7	(a)	Explain in detail about Protoplast fusion and Somatic hybridization.	06
	(b)	Write in detail about traditional drug which used in fermentation process of Asava.	05
	(c)	Write a note on Cardiotonic drug.	05
