Seat No.: Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 6 EXAMINATION - SUMMER -2019

Subject Code: 260006 Date: 18-05-2019

Subject Name: Pharmacognosy - V(Plant Bio Technology)

Time: 02:30 PM TO 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)	Define Plant tissue culture. Describe general technique and nutrient requirement of it.	06
	(b) (c)	What is cryopreservation? Discuss its advantages. What are antioxidants? Discuss antioxidants of natural origin.	05 05
Q.2	(a) (b) (c)	Define Terpenoids. Write classification, occurrence and properties of them. Explain Acetate-mevalonate pathway with detailed chemistry. Give the Chemistry and pharmacological activity of Vitamin-A.	06 05 05
Q.3	(a) (b) (c)	Explain terms Prebiotics and Probiotics illustrating suitable examples. Write a note on neutraceuticals. Write short note on unorganized drug from your syllabus.	06 05 05
Q.4	(a)	Write Chemical structure, therapeutic & pharmacological activity of (i) Carvone (ii) Pinene (iii) Menthone	06
	(b) (c)	Write detailed notes on PUFA (Poly Unsaturated Fatty Acids). Write biogenesis and chemistry and Pharmacological activity of Geraniol.	05 05
Q.5	(a)	Give application of Plant Tissue Culture for production of secondary plant metabolites with examples.	06
	(b) (c)	What is protoplast? Discuss methods of protoplast fusion. Explain: Plant cell immobilization.	05 05
Q. 6	(a) (b)	Draw the labeled diagram of microscopy of Satavari root. Describe a memory enhancer drug described in traditional text & included in your syllabus.	06 05
	(c)	Name the flowers used in preparation of arishta and asava. Give biological source, chemical constituents and uses of it.	05
Q.7	(a)	Give the vernacular name, B.S, C.C with structure and common use of the following drug. (i) Apamarg (ii) kalijiri (iii) Methi	06
	(b)	Describe B.S, Family, Chemical Constituents and uses of following: 1. Galo 2. Adusa	05
	(c)	Discuss at length Drug Bhringraj.	05
