Enrolment No.	
Lindinchi 110.	

## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM.-SEMESTER-VI- EXAMINATION –SUMMER-2017

Subject code: 260006 Date: 10/05/2017

**Subject Name: Pharmacognosy-V (plant bio technology)** 

Time: 10:30 AM to 01:30 PM Total Marks: 80

## **Instructions:**

Seat No.: \_\_\_\_\_

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

Q.1	(a) (b) (c)	Define plant tissue culture. Describe general technique and application of it. Discuss Micro & Macronutrients requirements of plant cells in culture medium. How the callus tissue is formed? Write significance of it.	06 05 05
Q.2	(a) (b) (c)	Classify terpenoids with their chemical structure. Write chemistry, biogenesis and Pharmacological activity of Geraniol. What is isoprene rule? Describe terpenoidal pathway.	06 05 05
Q.3	(a) (b) (c)	Write common uses and marketed formulations of Chakramadu and Galo. Write chemical constituents and traditional uses of Adusi in detail. Write geographical source, chemical constituents and formulations of Apamarga.	06 05 05
Q.4	(a) (b) (c)	What is terpenoid? Describe properties and any one isolation method in detail. Write biogenesis of Pinene and Vitamin – A Describe Wagner Meerwein rearrangement and Mannich reaction.	06 05 05
Q.5	(a) (b) (c)	Describe naturally occurring antioxidants and its mechanism of action. Write in brief Methi used as health food. Describe in brief Phytopharmaceuticals and Nutraceuticals.	06 05 05
Q. 6	(a) (b) (c)	Write production and purification of shilajit. Draw and describe well labeled T.S. of Karen leaf. Describe Pharmacognostic study of shatavari.	06 05 05
Q. 7	(a) (b) (c)	Describe a memory enhancer drug described in traditional text. Write morphology of Kalijiri and Dhatakipushpa. Write pharmocognostic note on Dhamaso.	06 05 05

\*\*\*\*\*\*