

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:**

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

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