

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.**

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|-------------|------------|--|-----------|
| 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 |
