

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm Sem-VI Regular Examination May 2011

Subject code: 260006 Subject Name: Pharmacognosy-v (Plant Bio Technology)

Date: 26/05/2011

Time : 10.30a.m. – 01.30 p.m.

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 nutrient requirement of it. | 06 |
| | (b) How the callus tissue is formed? Write significance of it. | 05 |
| | (c) What is cryopreservation? Mention its importance. | 05 |
| Q-2 | (a) What are Immunomodulator drugs? Name the drugs coming in this category. Write pharmacognosy of a fruit drug of this category. | 06 |
| | (b) Write production of shilajit. | 05 |
| | (c) Draw and describe T.S. of Arjuna bark. | 05 |
| Q-3 | (a) Define Terpenoids. Write classification, occurrence and properties of them. | 06 |
| | (b) Write biogenesis and chemistry of menthone. | 05 |
| | (c) Write source and chemistry of carvone. | 05 |
| Q-4 | Write B.S., family, C.C. and uses of | |
| | (a) Apamarg | 06 |
| | (b) Chitrak | 05 |
| | (c) Malkangni | 05 |
| Q-5 | Write in short about- | |
| | (a) Dhatakipushpa | 06 |
| | (b) Oleanolic acid | 05 |
| | (c) Odorosides | 05 |
| Q-6 | Explain the followings- | |
| | (a) Elicitation | 06 |
| | (b) Plant cell immobilization | 05 |
| | (c) Biotransformation | 05 |
| Q-7 | Write in brief about- | |
| | (a) Corn oil and methi used as health food | 06 |
| | (b) Naturally occurring antioxidants and its mechanism of action | 05 |
| | (c) Phytopharmaceuticals and Nutraceuticals | 05 |
