

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

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-VI May-2012 Examination

Subject code: 260006

Subject Name: Pharmacognosy-V (Plant Biotechnology)

Time: 10:30am to 1:30pm

Date: 15-05-2012

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) What is plant tissue culture Technique? Give the importance of plant tissue culture techniques in industry. **06**  
(b) Explain various types of plant tissue culture. **05**  
(c) Write a note on media used in plant tissue culture technique. **05**
- Q.2** (a) Discuss in detail Karen. **06**  
(b) Give the common name, botanical source, morphology, main chemical constituents, marketed preparations of :  
(i) Galo (ii) Satavari **05**  
(c) Write a note on Apamarg **05**
- Q.3** (a) Give the Chemistry and biogenesis of  $\beta$ -amyrin. **06**  
(b) Give the Chemistry of Geraniol and Menthone. **05**  
(c) Write a note on herb as health food. **05**
- Q.4** (a) Discuss at length Drug Eclipta. **06**  
(b) Draw the labeled diagram of microscopy of Satavari root. **05**  
(c) Write in details about the drug containing anthraquinone glycoside. **05**
- Q.5** (a) Write the complete pharmacognosy of drug having cardiotoxic activity. **06**  
(b) Give the Chemistry and pharmacological activity of Vitamin-A **05**  
(c) Write a note on Dhataki. **05**
- Q.6** (a) Explain the technique of somatic hybridization in plant tissue culture. **06**  
(b) Write in detail about Malkangni. **05**  
(c) Give the brief pharmacognosy of Adusa. **05**
- Q.7** (a) Give the vernacular name, botanical sources, main chemical constituents with structure and common use of the following drug. **06**  
(i) Chitrak (ii) kalijiri (iii) Dhamaso  
(b) Write a note on suspension culture. **05**  
(c) Write a note on Shilajit. **05**

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