

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VI • EXAMINATION – SUMMER 2013

Subject Code: 260006**Date: 01-06-2013****Subject Name: Pharmacognosy – V (Plant Bio Technology)****Time: 10.30 am - 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) Discuss techniques for enhancing secondary metabolite production by tissue culture. | 06 |
| | (b) Write a note on medium used for tissue culture. | 05 |
| | (c) Write in detail about protoplast culture. | 05 |
| Q.2 | (a) Give Differences between
i) Static culture/ Suspension culture.
ii) Prebiotics/ Probiotics. | 06 |
| | (b) Method of preparation of Apamarg Kshar and Galo satva. | 05 |
| | (c) Write a note on different species of Chitrak. | 05 |
| Q.3 | (a) Write in detail about varieties and properties of Shilajit. | 06 |
| | (b) Write in detail about the adulterants of Bhangro, Dhamaso and Arjuna. | 05 |
| | (c) Write a note on a seed drugs used as a brain tonic and as an anthelmintic. | 05 |
| Q.4 | (a) Give classification of terpenoids with suitable examples. | 06 |
| | (b) Write chemistry of Geraniol. | 05 |
| | (c) Write a detailed note on tannin containing drugs of your syllabus. | 05 |
| Q.5 | (a) Write a note on a health food from natural source. | 06 |
| | (b) Give botanical sources, chemical constituents and uses of Karen and Chakramadu. | 05 |
| | (c) Enlist the drugs containing saponins of your syllabus. Give detail of a seed drug containing them. | 05 |
| Q. 6 | (a) Write a note on biosynthesis of Abietic acid | 06 |
| | (b) Write a note on electroporation and shotgun methods. | 05 |
| | (c) Write synthesis of Menthone. | 05 |
| Q. 7 | (a) Write a note on biosynthesis of β -amyrin. | 06 |
| | (b) Write in detail about chemistry of Vitamin A. | 05 |
| | (c) Write a note on history of Plant tissue culture. | 05 |
