

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph SEM-II Examination- Dec.-2011

Subject code: 220005

Date: 22/12/2011

Subject Name: Pharmacognosy-I

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.

- | | | |
|-------------|--|-----------|
| Q.1 | (a) Define pharmacognosy. Describe in brief history and scope of pharmacognosy. | 06 |
| | (b) Enumerate different methods of classification of crude drugs. Discuss in detail pharmacological classification of crude drugs. | 05 |
| | (c) Define carbohydrates. Describe preparation of agar and chemical constituents of it. | 05 |
| Q.2 | (a) Define crude drugs. Discuss tissue culture as a source of crude drugs. | 06 |
| | (b) Define tannins. Give classification, properties, general uses & chemical tests of them. | 05 |
| | (c) Write a pharmacognostic note on Indian gum. | 05 |
| Q.3 | (a) Explain underground and sub-aerial modification of stem. | 06 |
| | (b) Define root. Write a note on modification of roots for storage. | 05 |
| | (c) Differentiate between simple leaf and compound leaf. | 05 |
| Q.4 | (a) Discuss in detail histology of dicot stem. | 06 |
| | (b) Define aestivation. Describe different types of it with suitable example. | 05 |
| | (c) Define bark. Draw & describe different shapes & outer surface of it with suitable example. | 05 |
| Q.5 | (a) Enlist factor influencing cultivation & collection of medicinal plants. What care is required to be taken during collection & processing of crude drugs? | 06 |
| | (b) Write a short note on hybridization. | 05 |
| | (c) Describe importance of plant growth regulators in cultivation of medicinal plants. | 05 |
| Q. 6 | (a) Define evaluation of crude drugs. Enlist different methods of evaluation. Discuss chemical evaluation in detail. | 06 |
| | (b) Define adulteration of crude drugs. Discuss different types of adulteration. | 05 |
| | (c) What is quantitative microscopy? Discuss in detail lycopodium spore method. | 05 |
| Q.7 | (a) Define lipids. Differentiate fats & waxes. Write preparation of castor oil. | 06 |
| | (b) Describe pharmacognosy of bees wax & hydnocarpus oil. | 05 |
| | (c) Define following: (i) Iodine value (ii) Saponification value (iii) Peroxide value (iv) Acid value (v) Rancidity index | 05 |
