

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER II • EXAMINATION – WINTER 2015

Subject Code: 220005

Date: 19/12/2015

Subject Name: Pharmacognosy I

Time: 2.30 pm to 5.30 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. Discuss in detail history of Pharmacognosy. | 06 |
| | (b) Write short note on tissue culture. | 05 |
| | (c) Mention the different methods of classification of crude drugs.
Discuss pharmacological method with its advantages and disadvantages. | 05 |
| Q.2 | (a) Define root. Explain modification of adventitious & tap root for storage. | 06 |
| | (b) Write a note on sub-aerial modification of stem. | 05 |
| | (c) Discuss in detail histology of monocot leaf. | 05 |
| Q.3 | (a) Define placentation. Describe different types of it with suitable example. | 06 |
| | (b) Define and classify fruit with examples. Explain parts of fruit. | 05 |
| | (c) Define followings: (i) Micropyle (ii) Bark (iii) Racemose inflorescence (iv) Chalaza (v) Umbel inflorescence | 05 |
| Q.4 | (a) What is cultivation? Discuss advantages and disadvantages of it. | 06 |
| | (b) What are plant growth regulators? Describe in brief importance of plant growth regulators in cultivation of medicinal plants. | 05 |
| | (c) Write short note on: 1) Polyploidy 2) Mutation | 05 |
| Q.5 | (a) Define adulteration. Discuss different methods of adulteration with suitable examples. | 06 |
| | (b) Define evaluation. Describe in detail chemical evaluation. | 05 |
| | (c) Define stomata. Write types of stomata and its function. | 05 |
| Q. 6 | (a) Write a short note on glycosides. | 06 |
| | (b) Define lipids. Write preparation of guar gum. | 05 |
| | (c) Give a pharmacognostic note on acacia. | 05 |
| Q.7 | (a) Define and classify carbohydrates. Give its properties and chemical tests. | 06 |
| | (b) Describe pharmacognosy of linseed oil and castor oil. | 05 |
| | (c) What are fixed oil, fats and waxes? Give chemical tests for fixed oils and fats. | 05 |
