

GUJARAT TECHNOLOGICAL UNIVERSITY**B. Pharm. – SEMESTER– II • EXAMINATION – SUMMER-2016****Subject Code: 220005****Date: 13/06/2016****Subject Name: Pharmacognosy –I****Time: 10:30 AM to 1:30 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) Describe history of Pharmacognosy. (06)
(b) Define Pharmacognosy and discuss scope of Pharmacognosy. (05)
(c) Define crude drugs. Describe different sources of crude drugs giving suitable examples. (05)
- Q.2** (a) Classify Crude drugs by various methods giving suitable examples in each method. (06)
(b) Define Leaf. Name different parts of leaf giving their Functions. Draw and Describe different shapes of leaf giving Suitable examples. (05)
(c) Draw and describe different types of venation in the leaf giving Suitable examples. (05)
- Q.3** (a) Draw and describe microscopy of monocot root. Describe difference between monocot and dicot root. (06)
(b) Draw and describe microscopy of dicot stem. Discuss how microscopy of dicot stem differs from monocot stem. (05)
(c) Define Fruit. Classify different types of fruits giving suitable examples. (05)
- Q.4** (a) Describe different methods of cultivation of Crude drugs. Describe merits and demerits of each of these methods. (06)
(b) Name different factors influencing cultivation of medicinal plants. Discuss giving suitable examples. How these factors influence quality of the medicinal plants. (05)
(c) Name different plant hormones. Describe their importance in cultivation of medicinal plant giving suitable examples. (05)
- Q.5** (a) Define adulteration of Crude drugs. Describe different methods of adulteration giving suitable examples. (06)
(b) Name different methods of detection of adulteration of crude drugs. Describe any one method in detail giving suitable examples. (05)
(c) Classify active constituents of the crude drugs giving suitable examples. (05)
- Q.6** (a) Give biological sources, family, active constituents and uses of following drugs. (Any three) i) Isabgol ii) Guar gum iii) Sterculia iv) Sodium Alginate. (06)
(b) Describe biological source, method of preparation, active constituents, uses and chemical tests for identification for Agar or Honey. (05)
(c) Describe biological sources, uses and chemical tests for identification for Acacia and Tragacanth. (05)
- Q.7** (a) Give biological sources, family, active constituents and uses of following drugs. (Any three) i) Linseed oil ii) Wool fat iii) Cocoa butter iv) Cod liver oil. (06)
(b) Describe biological source, method of preparation, active constituents, uses and chemical tests for identification for Bees wax or Castor oil. (05)
(c) Describe biological sources, uses and chemical tests for identification of Sesame oil and Shark liver oil. (05)