

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2014

Subject Code: 2230006**Date: 31-12-2014****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 adulteration and evaluation of crude drugs. Explain in detail microscopic evaluation of crude drugs. **06**
(b) Write functions of leaf. Give types of apex and margin of the leaf with diagram. **05**
(c) What is pharmacognosy? Describe in brief about scope and development of pharmacognosy. **05**
- Q.2** (a) What is root? Write functions of root. Discuss modification of it for storage of food. **06**
(b) Define phytoconstituent. Give chemical tests for tannins and alkaloids. **05**
(c) Write biological source, preparation, chemical tests and uses of Honey. **05**
- Q.3** (a) Define crude drug. Enlist various sources of crude drugs giving suitable examples. Discuss the on tissue culture as a source of crude drug. **06**
(b) Discuss physical evaluation of crude drugs. **05**
(c) Write biological source, chemical constituents, uses of Iasbgol and guar gum. **05**
- Q.4** (a) Define glycosides. Classify them with suitable examples and write properties. **06**
(b) Enumerate various method of classification of crude drugs. Discuss in detail the therapeutic classification with it's merits and demerits. **05**
(c) Differentiate fixed oil and volatile oil. **05**
- Q.5** (a) Write a brief note on Polyploidy and Mutation. **06**
(b) Describe the chemical tests for detection of following oils as an adulterant: i)Castor oil ii) Linseed oil iii) Karanj oil iv) Sesame oil v) Cotton seed oil **05**
(c) Write a note on preparation and uses of castor oil. **05**
- Q. 6** (a) Write a brief note on classification of fruit. **06**
(b) Write a note on plant hormones and their applications. **05**
(c) What are the advantages of cultivation of crude drugs? Enlist the factors affecting cultivation. **05**
- Q.7** (a) Differentiate the followings **06**
i) monocot and dicot stem ii) monocot and dicot seed
(b) Write a detailed note on Indian gum. **05**
(c) Describe in brief on fertilizers and manures used in cultivation. **05**
