

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2016**

**Subject Code: 2230006****Date: 01-12-2016****Subject Name: Pharmacognosy - I****Time: 02:30 pm - 05:30 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 crude drug. Write down its different method of classification. Discuss chemical classification of crude drugs with examples. **06**
- (b) Define pharmacognosy. Discuss in brief about scope and development of pharmacognosy. **05**
- (c) Differentiate between monocot leaf and dicot leaf. **05**
- Q.2** (a) Classify nonliving cell content with suitable examples. **06**
- (b) Enumerate sources of crude drugs. Explain in detail about minerals as a source of crude drugs. **05**
- (c) What is mutation? Discuss in detail about its application in context to cultivation of medicinal plants. **05**
- Q.3** (a) Define volatile oils. Discuss its properties. Give its classification with suitable examples. **06**
- (b) What is drug evaluation? Write down types of evaluation of crude drugs. Discuss in brief about morphological evaluation of crude drug. **05**
- (c) What is drug adulteration? Explain in detail about different types of drug adulteration. **05**
- Q.4** (a) Differentiate between i) Natural honey vs Artificial honey **06**  
ii) Fat vs Wax  
iii) Hydrolysable tannins vs Condensed tannins
- (b) Write down biological source, chemical constituents, method of preparation and uses of agar. **05**
- (c) Write a note on pharmacognosy of isabgol. **05**
- Q.5** (a) What is lipid? Discuss its properties and classification in detail. **06**
- (b) Write down biological source, chemical constituents and uses of chaulmoogra oil and linseed oil. **05**
- (c) Define: i) resins ii) alkaloids iii) trichome iv) stomata v) saponification value **05**
- Q. 6** (a) Write down biological sources, chemical constituents and uses of cod liver oil and Indian gum. **06**
- (b) Enumerate factors affecting cultivation of crude drugs. Write in detail about role of soil and soil fertility in cultivation of medicinal plant. **05**
- (c) Write down general chemical tests of alkaloid and tannins. **05**
- Q.7** (a) Write down a note on quantitative microscopy. **06**
- (b) What is bark? Draw and explain different shapes of bark with examples. **05**
- (c) Enlist plant hormones. Write down application of plant hormones with reference to cultivation. **05**