

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER- III • EXAMINATION – SUMMER-2017

Subject Code: 2230006**Date: 12/06/2017****Subject Name: Pharmacognosy-I****Time: 02:30 PM to 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) What is Pharmacognosy? Describe its significance and scope for future drug development. **06**
- (b) Enlist sources of crude drugs. Describe in brief marine and animal as sources of crude drugs with examples. **05**
- (c) Differentiate between monocot and dicot leaf, both morphologically and microscopically. **05**
- Q.2** (a) Enumerate various method of classification of crude drugs. Discuss in detail the Morphological and chemical classification with it's merits and demerits. **06**
- (b) Write functions of leaf. Give types of apex and margin of the leaf with diagram. **05**
- (c) Discuss physical evaluation of crude drugs. **05**
- Q.3** (a) Discuss the advantages of cultivated medicinal plants over wild plants. List out the various intrinsic and extrinsic factors affecting Cultivation and collection of medicinal Plants. Describe any one in detail. **08**
- (b) Write short note on plant hormones with examples. **05**
- (c) Define Polyploidy, Vein lets number, Saponification value. **03**
- Q.4** (a) Define carbohydrates? Explain classification and chemical tests for Identification of carbohydrate? **06**
- (b) Write a note on preparation and uses of honey. **05**
- (c) What are gums? Differentiate Gum Acacia and Gum Tragacanth. **05**
- Q.5** (a) Define lipids? Give physico-chemical properties and classification of lipids with suitable examples? **06**
- (b) Define adulteration? Describe methods of adulteration for crude drugs? **05**
- (c) Define phytoconstituent. Give chemical tests for tannins and alkaloids. **05**
- Q. 6** (a) Describe the Biological source, chemical tests and uses of following oils:
i)Codliver oil ii) Linseed oil iii) Karanj oil **06**
- (b) Define Following terms: i) Acid value ii) ester value iii) iodine number iv) Reichert-Meissl (RM) number v) Hydroxyl value **05**
- (c) Write a note on B.S, properties, preparation and uses of castor oil. **05**
- Q.7** (a) Explain WHO guidelines to evaluate crude drug with emphasis on microbial evaluation? **06**
- (b) Write a brief note on classification of fruit with example. **05**
- (c) Define flavonoids and resins and give detailed account on chemical test for identification of it? **05**