

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-II Remedial Examination September 2009

Subject code: 220005

Subject Name: Pharmacognosy - I

Date: 09 /09 / 2009

Time: 10:30am - 1:30pm

Total Marks: 80

Instructions:

1. Write seat no. and enrolment no. at given location on question paper.
2. Attempt any five questions.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1** (a) Define Pharmacognosy. Describe in brief History and Scope of Pharmacognosy. **08**
- (b) Define Crude drugs. Describe in brief sources of drugs. **08**
- Q.2** (a) Enumerate the different methods of classification of crude drugs. Discuss Chemical and Pharmacological classification with their merits and demerits, justify your answer with suitable examples. **10**
- (b) Define Leaf. Describe parts of leaf with neat labelled diagram. **06**
- Q.3** (a) Write short notes on the following **08**
- i) Xylem elements
 - ii) Histology of Root
 - iii) T.S. of Maize stem
 - iv) Difference between Root and Stem
- (b) Explain Aerial and Underground modification of Stems. **08**
- Q.4** (a) Discuss the advantages of cultivated medicinal plants over their intact wild plants. **06**
- (b) What care is required to be taken while collecting and processing of different crude drugs? **06**
- (c) Write a note on types of Soil. **04**
- Q.5** (a) Define Adultration of crude drugs. Discuss different types of adultration with suitable examples. **08**
- (b) Define evaluation of crude drugs. Discuss Organoleptic and Microscopic evaluation. **08**
- Q. 6** (a) Write Botanical source, Family, Chemical constituents and Uses of following **12**
- i) Acacia
 - ii) Hydnocarpus oil
 - iii) Guar gum
 - iv) Castor oil
 - v) Pectin
 - vi) Isabgol
- (b) i) How Agar is prepared from sea weeds. Mention chemical constituents of it. **04**
- ii) How Tragacanth gum is collected. Mention uses of it.
- Q.7** Define Carbohydrates and Lipids. Classify them; write their properties, chemistry, general chemical tests and uses. **16**
