

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 |
