

**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.**

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| <b>Q.1</b>  | (a) Define Pharmacognosy. Describe in brief History and Scope of Pharmacognosy.                                                                                                                                                                                 | <b>08</b> |
|             | (b) Define Crude drugs. Describe in brief sources of drugs.                                                                                                                                                                                                     | <b>08</b> |
| <b>Q.2</b>  | (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.                                                           | <b>10</b> |
|             | (b) Define Leaf. Describe parts of leaf with neat labelled diagram.                                                                                                                                                                                             | <b>06</b> |
| <b>Q.3</b>  | (a) Write short notes on the following <ul style="list-style-type: none"> <li>i) Xylem elements</li> <li>ii) Histology of Root</li> <li>iii) T.S. of Maize stem</li> <li>iv) Difference between Root and Stem</li> </ul>                                        | <b>08</b> |
|             | (b) Explain Aerial and Underground modification of Stems.                                                                                                                                                                                                       | <b>08</b> |
| <b>Q.4</b>  | (a) Discuss the advantages of cultivated medicinal plants over their intact wild plants.                                                                                                                                                                        | <b>06</b> |
|             | (b) What care is required to be taken while collecting and processing of different crude drugs?                                                                                                                                                                 | <b>06</b> |
|             | (c) Write a note on types of Soil.                                                                                                                                                                                                                              | <b>04</b> |
| <b>Q.5</b>  | (a) Define Adultration of crude drugs. Discuss different types of adultration with suitable examples.                                                                                                                                                           | <b>08</b> |
|             | (b) Define evaluation of crude drugs. Discuss Organoleptic and Microscopic evaluation.                                                                                                                                                                          | <b>08</b> |
| <b>Q. 6</b> | (a) Write Botanical source, Family, Chemical constituents and Uses of following <ul style="list-style-type: none"> <li>i) Acacia</li> <li>ii) Hydnocarpus oil</li> <li>iii) Guar gum</li> <li>iv) Castor oil</li> <li>v) Pectin</li> <li>vi) Isabgol</li> </ul> | <b>12</b> |
|             | (b) i) How Agar is prepared from sea weeds. Mention chemical constituents of it.                                                                                                                                                                                | <b>04</b> |
|             | ii) How Tragacanth gum is collected. Mention uses of it.                                                                                                                                                                                                        |           |
| <b>Q.7</b>  | Define Carbohydrates and Lipids. Classify them; write their properties, chemistry, general chemical tests and uses.                                                                                                                                             | <b>16</b> |

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