

**GUJARAT TECHNOLOGICAL UNIVERSITY****B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER • 2016****Subject Code: 240006****Date: 27-10-2016****Subject Name: Pharmacognosy-III****Time: 10:30 am - 01:30 pm****Total Marks: 80****Instructions:**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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| <b>Q.1</b> | (a) Define Glycosides. Enumerate its Classification and write detail classification based on Glycosidic linkage.                           | <b>06</b> |
|            | (b) Write Pharmacognostic report on Picrorrhiza.   | <b>05</b> |
|            | (c) Detail note on Ruta graveolens.  | <b>05</b> |
| <b>Q.2</b> | (a) Write a detail note on Fox Glove leaf.   | <b>06</b> |
|            | (b) Write the General Chemical Tests for Cardiac Glycoside.  | <b>05</b> |
|            | (c) Give Biological Source, Family, Chemical Constitutes and uses of Strophanthus and Thevetia.  | <b>05</b> |
| <b>Q.3</b> | (a) Write detail Pharmacognosy of Senna.   | <b>06</b> |
|            | (b) Explain Chemistry and Mechanism of Action of Anthraquinone Glycoside.  | <b>05</b> |
|            | (c) Give Preparation Methods for Different types of Aloe.  | <b>05</b> |
| <b>Q.4</b> | (a) What is Bitter Glycoside. Differentiate Chirata and Bengal Chirata.  | <b>06</b> |
|            | (b) Differentiate:<br>i) Indian Scilla and European Scilla<br>ii) Surinam Quassia and Jamaican Quassia                                     | <b>05</b> |
|            | (c) Draw neat labeled Morphology and Microscopy of <i>Ammi majus</i> .   | <b>05</b> |
| <b>Q.5</b> | (a) Define Saponin Glycoside. Write in detail about properties, Types and chemistry of saponins.   | <b>06</b> |
|            | (b) Write different sources of Dioscorea. Explain importance of Diosgenin.   | <b>05</b> |
|            | (c) Give Biological Source, Family, Chemical Constitutes, Uses and Allied drugs of Ginseng.  | <b>05</b> |
| <b>Q.6</b> | (a) i) Describe Chemical test which differentiate O-Glycoside and C-Glycoside.<br>ii) Differentiate Chinese Rhubarb and Rhapontic Rhubarb. | <b>06</b> |
|            | (b) Write Pharmacognosy with chemical tests of Bavchi.   | <b>05</b> |
|            | (c) Write a note on Isothiocyanate glycosides.   | <b>05</b> |
| <b>Q.7</b> | (a) Detail note on Definition, Classification and Significance of Enzymes.   | <b>06</b> |
|            | (b) Write Biological Source, Method of Preparation, Chemical Tests and uses of Papain.   | <b>05</b> |
|            | (c) Write Biological Source, Method of Preparation, Chemical Tests and uses of Amylase.  | <b>05</b> |

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