

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.

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