

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-IV Remedial Examination Nov/Dec. 2010

Subject code: 240006

Subject Name: Pharmacognosy-III

Date: 10 / 12/ 2010

Time: 02.30 pm – 05.30 pm

Instructions:

Total Marks: 80

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

- Q.1** (a) Define Glycosides. Classify them with appropriate examples. **06**
(b) Write the general chemical tests for glycosides. **05**
(c) i) Give medicinal uses of Sarsapilla and Quillaia. **05**
ii) Differentiate Indian Senna and Alexandrian Senna.
- Q.2** (a) Draw detailed labeled diagram of microscopy of Glycyrrhiza. **06**
(b) Discuss in detail on drug containing steroidal saponin used in rheumatism. **05**
(c) i) Write on “Allied species of Senega” **05**
ii) Discuss the phytoconstituents and uses of Ginseng.
- Q.3** (a) Write a short note on “Interrelationship of glycosides of *Digitalis purpurea* and *Digitalis lanata*”. **06**
(b) Write a detail note on Thevetia. **05**
(c) i) Differentiate the Cardenolides and Bufadienolides. **05**
ii) Comment on white scilla should be stored in moisture proof containers.
- Q.4** (a) Write in short on cultivation, collection and storage of Senna. **06**
(b) How will you prepare the different types of Aloes? **05**
(c) Give biological source, chemical constituents and discuss detailed macroscopic characters of Rhubarb with appropriate diagrams. **05**
- Q.5** (a) Comment on : **06**
i) Cascara bark is stored for one year before use.
ii) Quassia wood is called diffuse porous.
iii) Liquorice gives violet colour with 80 % H₂SO₄.
(b) Discuss in detail the transverse section of chirata stem. **05**
(c) Write biological source, family chemical constituents and uses of Gentian. **05**
- Q. 6** (a) Write a short note on Isothiocyanate glycosides. **06**
(b) Discuss in detail cyanogenetic glycosides. **05**
(c) Write a brief note on pharmacognostic study of Psoralea fruits **05**
- Q.7** (a) Give the pharmaceutical uses of enzymes. **06**
(b) Write biological source and the method of preparation of Papain. **05**
(c) Write a short note on Pepsin and Diastase. **05**
