

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – IV • EXAMINATION – SUMMER • 2014**

**Subject Code: 240006**

**Date: 26-05-2014**

**Subject Name: Pharmacognosy-III**

**Time: 02:30 pm - 05:30 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 Saponin glycosides. Give the biological source, macroscopic features, chemical constituents and uses of Liquorice **06**  
(b) Write a pharmacognostic note on a saponin drug used as adaptogen **05**  
(c) Write a short note on Senega **05**
- Q.2** (a) Discuss in detail about a leaf drug containing cardiac principle **06**  
(b) Write the difference between the following (any two): **05**  
i. Indian Squill and European Squill  
ii. Chinese rhubarb and Rhapontic rhubarb  
iii. Cardenolides and Bufadienolides  
(c) Give chemical tests for cardiac glycosides **05**
- Q.3** (a) Write in short on cultivation, collection and processing of Senna **06**  
(b) Write a pharmacognostic note on Aloe **05**  
(c) Give the biological source, chemical constituents and uses of Cassia **05**
- Q.4** (a) Give the biological source, chemical constituents, uses and allied drugs of Gentian **06**  
(b) Write a pharmacognostic note on Picrorrhiza **05**  
(c) Give the common name, biological source, chemical constituents and uses of Andrographis **05**
- Q.5** (a) Write the difference between the following (any two): **06**  
i. *Ammi majus* and *Ammi visnaga*  
ii. Bitter almond and Sweet almond  
iii. Steroidal saponins and Pentacyclic triterpenoid saponins  
(b) Give the common name, biological source, chemical constituents and uses of a drug belonging to Coumarin glycoside class and is used in the treatment of leucoderma **05**  
(c) Draw neat and well labelled morphological and microscopical diagram of Linseed **05**
- Q. 6** (a) Define and classify glycosides with suitable examples **06**  
(b) Define and classify flavanoids with suitable examples **05**  
(c) Write a pharmacognostic note on Black mustard **05**
- Q.7** (a) Define and classify enzyme with suitable examples **06**  
(b) Give the biological source, method of preparation and uses of Papain **05**  
(c) Write a short note on Pepsin **05**

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