

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

Subject Code: 240006**Date: 05-01-2015****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 and give the classification and explain Transverse section of *Glycyrrhiza glabra*. **06**
- (b) Give the methods of preparation and chemical tests of different types of Aloe. **05**
- (c) Write short note on Ginseng. **05**
- Q.2** (a) Give the difference between cardenolide & bufadienolide; Give the B.source, family, chemical constituent and uses of any one bufadienolide containing drugs. **06**
- (b) Define Glycoside; give its property and classification. Give the difference between Indian senna & Alexandrian senna. **05**
- (c) Write short note on Furanocoumarin glycoside. **05**
- Q.3** (a) Give the structure and chemical test for following chemical constituents. **06**
1. Sennoside B 2. Diosgenin 3. Digitoxose
- (b) Give the B.source, chemical constituents and uses of Senega and Explain transverse section of Senega with proper label. **05**
- (c) Discuss the Pharmacognosy of any one seed drug which is used as laxative. **05**
- Q.4** (a) Comment on following. **06**
1. Glycyrrhiza is banned in USA in confectionary as sweetening agent.
2. Cascara bark is stored for one year before use.
3. Digitalis should be dried as soon as collected.
- (b) Write short notes on bitter tonic drugs. **05**
- (c) Give the different species of Rhubarb with geographical sources and give the Chemical constituents and identification tests for rhubarb. **05**
- Q.5** (a) Define and classify flavonoids and discuss complete Pharmacognosy of Rutagraveolens. **06**
- (b) Give the difference between *Ammi majus* and *Ammi visnag*. **05**
- (c) Give the morphological characteristics, adulterant and substitute of Strophanthus. **05**
- Q. 6** (a) Give the difference between *Digitalis lanata* and *Digitalis purpurea* and explain hydrolysis of its glycoside. **06**
- (b) Define enzyme and give the B.Source & method of preparation of enzyme Diastase. **05**
- (c) Discuss the complete pharmacognosy of any one anthelmintic drug. **05**

- Q.7** (a) Give the B.Source, method of preparation and pharmaceutical uses of enzyme Papain. **06**
- (b) Give the difference between Black mustard and White mustard. **05**
- (c) Give the different sources, phytoconstituents and pharmacological uses of Sarsaparilla. **05**
