

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – IV • EXAMINATION – SUMMER 2013

Subject Code: 240006**Date: 23-05-2013****Subject Name: Pharmacognosy-III****Time: 10.30 pm - 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) Describe biological source, cultivation, collection, packing and uses of Indian Senna. **06**
(b) Draw and describe macroscopic and microscopic characters of Indian Senna. **05**
(c) Describe active constituents of Senna giving their structures and chemical tests for identification. **05**
- Q.2** (a) Describe cultivation, collection, drying, storage and uses of Digitalis. **06**
(b) Describe morphological, microscopical and chemical difference between *Digitalis purpurea* and *Digitalis lanata*. **05**
(c) Describe chemical tests for identification of Desoxy sugars, Cardenolides and Bufadienolides. **05**
- Q.3** (a) Name different species of Dioscorea, give active constituents and uses of Dioscorea. Describe commercial importance of major chemical constituent of Dioscorea. **06**
(b) Describe active constituents and uses of Liquorice and Ginseng. **05**
(c) Draw and describe morphology and microscopy of Liquorice. **05**
- Q.4** (a) Give points of difference between following drugs: **06**
(i) Indian Rhubarb and Chinese Rhubarb
(ii) Ammi majus and Ammi visnaga
(iii) Indian Squill and European Squill
(b) Describe active constituents and uses of Psoralea and Quillaia. **05**
(c) Describe biological sources, active constituents, uses and chemical tests for identification of Linseed. **05**
- Q.5** (a) Describe biological source, active constituents and uses of Picrorrhiza, Kalmegh and Senega. **06**
(b) Describe biological sources, preparation, tests for identification and uses of Diastase. **05**
(c) What are flavanoids? Describe biological source, active constituents and uses of a drug containing flavanoids. **05**
- Q.6** (a) Describe points of differences between following drugs: **06**
(i) Bitter Almonds and Sweet Almonds
(ii) Black Mustard and White Mustard
(iii) Jamaican Quassia and Surinam Quassia
(b) Describe biological source, active constituents and uses of Strophanthus, Thevetia and Cascara. **05**
(c) Describe biological source, preparation, chemical tests for identification and uses of Papain. **05**
- Q.7** (a) Describe biological sources, methods of preparation, active constituents, uses and chemical tests for identification of Aloe. **06**
(b) Describe biological source, active constituents and uses of Sarsaparilla and Chirata. **05**
(c) Describe biological source, active constituents, uses and morphology of Cassia. **05**
