

GUJARAT TECHNOLOGICAL UNIVERSITY**B. PHARM. - SEMESTER – IV • EXAMINATION – WINTER 2012****Subject code: 240006****Date: 05/01/2013****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.

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| Q.1 | (a) | Write difference between Cardenolides and Bufadienolides with suitable example. | 06 |
| | (b) | Discuss Biological source & active chemical constituents of a seed drug containing cardiac principle. | 05 |
| | (c) | Discuss Common Name, Biological Source, Family, Chemical constituents with chemical structure, Uses & Adulterants of <i>Digitalis purpurea</i> & <i>Digitalis lanata</i> . | 05 |
| Q.2 | (a) | Define Saponins. Enumerate any three drugs containing saponins. Write biological names, chemical constituents & uses of any one. | 06 |
| | (b) | Write biological source, family & Draw neat & labeled transverse section diagram of Glycyrrhiza roots. | 05 |
| | (c) | Write common name, biological source, family chemical constituents with chemical and uses of Dioscorea. | 05 |
| Q.3 | (a) | Define Enzyme & Give the pharmaceutical uses of enzymes with suitable example. | 06 |
| | (b) | Give sources, method of preparation, properties and therapeutic Importance of Diastase enzyme. | 05 |
| | (c) | Enumerate any one drug with its biological source belonging to proteolytic and lipolytic type enzymes from the syllabus. | 05 |
| Q.4 | (a) | Differentiate Indian Senna and Alexandrian Senna with suitable diagram & examples. | 06 |
| | (b) | Write common name biological source, chemical constituents with chemical structure and uses of Rhubarb rhizome. | 05 |
| | (c) | Describe biological source & chemical tests by which you can differentiate the commercial varieties of Aloes. | 05 |
| Q.5 | (a) | Define coumarins. Discuss their therapeutic applications with suitable examples. | 06 |
| | (b) | Write a short note on pharmacognostic study of Psoralea fruits. | 05 |
| | (c) | Discuss biological source, chemical constituents with chemical structure and uses of Cyanogenetic glycoside. | 05 |
| Q.6 | (a) | Discuss general chemical tests for all glycosides with suitable example. | 06 |
| | (b) | Write common name, biological source, chemical constituents and uses of <i>Ammi majus</i> . | 05 |
| | (c) | Discuss biological source, family, chemical constituents & chemical test for a drug which contains isothiocyanate glycosides. | 05 |
| Q.7 | (a) | Write biological source, family chemical constituents and uses of Sarsaparilla and Chirata | 06 |
| | (b) | Discuss with suitable diagram pharmacognostical character of Rutagraveolens. | 05 |
| | (c) | Write common name, biological source, chemical constituents and uses of Kalmegh. | 05 |
