

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER • 2015

Subject Code: 240006

Date: 13-01-2016

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) Define Glycosides. Classify them with appropriate examples. | 06 |
| | (b) Differentiate Indian Senna and Alexandrian Senna. | 05 |
| | (c) Write the general chemical tests for glycosides. | 05 |
| Q.2 | (a) Define enzymes. Classify those giving suitable examples. Add a note on their significance. | 06 |
| | (b) Give sources, method of preparation, properties and therapeutic importance of Papain. | 05 |
| | (c) Write a short note on Pepsin and Diastase. | 05 |
| Q.3 | (a) Enlist name of plant drugs classified under Bitter glycosides. Write active constituents, uses and adulterants of Picrorrhiza. | 06 |
| | (b) Differentiate the various sources of aloes by Klunge's isobarbaloin test. | 05 |
| | (c) Draw a neat labeled T.S of Chirata. | 05 |
| Q.4 | (a) Discuss in detail on drug containing steroidal saponin used in rheumatism. | 06 |
| | (b) Give biological source, family, chemical constituents, uses and adulterants of Thevetia. | 05 |
| | (c) Give biological source, family, chemical constituents, uses and adulterants of Rhubarb. | 05 |
| Q.5 | (a) Write biological source, family chemical constituents and uses of Gentian. | 06 |
| | (b) Write a short note on Isothiocyanate glycosides. | 05 |
| | (c) What are coumarins? Mention their therapeutic applications. | 05 |
| Q. 6 | (a) Give brief description of <i>Ammi majus</i> . | 06 |
| | (b) Draw neat and well labeled diagrams of Morphology & microscopy of Linseed seed. | 05 |
| | (c) What are Jamaican and Suriman Quassia? How are these two differentiated? | 05 |
| Q. 7 | (a) Give a pharmacognostic note on Digitalis. | 06 |
| | (b) Write in short on cultivation, collection and storage of Ginseng. | 05 |
| | (c) Differentiate the O-glycoside and C-glycoside by chemical test. | 05 |
