

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph SEM-IV Examination-Nov/Dec.-2011

Subject code: 240006

Date: 2/12/2011

Subject Name: Pharmacognosy-III

Time: 02.30 pm-05.30 pm

Instructions:

Total Marks: 80

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. Discuss different bases for classification of glycosides with suitable examples. | 06 |
| | (b) Write a note on biogenesis of glycosides. | 05 |
| | (c) Mention importance of glycosides in plants. | 05 |
| Q.2 | (a) Differentiate Indian Senna and Alexandrian senna. | 06 |
| | (b) Elaborate method of cultivation and collection of Senna. | 05 |
| | (c) Explain mechanism of action of Anthraquinone glycosides. | 05 |
| Q.3 | (a) What is the structural difference between steroidal cardiac glycoside and steroidal Saponins? Discuss SAR of Cardiac glycosides. | 06 |
| | (b) Differentiate <i>Digitalis purpurea</i> and <i>Digitalis lanata</i> . | 05 |
| | (c) Differentiate cardenolides and Bufadienolides. | 05 |
| Q.4 | (a) Comment on followings: (Any three) | 06 |
| | (i) Pressure is applied at the base of the leaf during collection of <i>Aloe vera</i> juice. | |
| | (ii) Sennoside A and B are heterodanthrone in the nature. | |
| | (iii) Aloe vera gel is maximum used in cosmetic preparations. | |
| | (iv) Acid insoluble ash of official rhubarb should be not more than 1 %. | |
| | (b) Classify flavanoids with examples | 05 |
| | (c) Differentiate <i>Ammi visnaga</i> and <i>Ammi majus</i> | 05 |
| Q.5 | (a) Elaborate morphology and microscopy of Linseed. | 06 |
| | (b) Explain thearapeutic importance of Bitter glycosides. | 05 |
| | (c) Write a brief note on isothiocyanate glycosides. | 05 |
| Q. 6 | (a) Give source and uses of Liquorice. Which conditions liquorice and its preparations are contraindicated? Explain with reason. | 06 |

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| | (b) | Write a note on Saponin glycosides | 05 |
| | (c) | Elaborate Pharmacognostical parameters of Dioscorea. | 05 |
| Q.7 | (a) | What is the meaning of Ginseng? Enumerate types of Ginseng and write chemical constituents of official ginseng. | 06 |
| | (b) | Write biological source, preparation and uses of Papain. | 05 |
| | (c) | Give Biological source, method of preparation and uses of Pepsin. | 05 |
