

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM. - SEMESTER- V • EXAMINATION – SUMMER-2016

Subject Code: 2250006

Date:12/05/2016

Subject Name: Pharmacognosy - III

Time: 2:30 PM to 5:30 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) write general method of isolation of glycosides. | 05 |
| | (c) Discuss different variety of mustard. | 05 |
| Q.2 | (a) Enlist drug containing bitter glycosides. Discuss chemical constituents and uses of chirata. | 06 |
| | (b) Discuss pharmacognosy of Quassia wood. | 05 |
| | (c) Draw and describe T.S. of Senna leaf. | 05 |
| Q.3 | (a) Enlist drug containing anthraquinone cathartics. Give chemical test to distinguish different variety of aloe. | 06 |
| | (b) Differentiate borntrager's test and modified borntrager's test with principle. | 05 |
| | (c) Write a short note on Rhubarb. | 05 |
| Q.4 | (a) Describe cultivation, collection, drying, storage and uses of Digitalis. | 06 |
| | (b) Differentiate cardenolides and bufadienolides. | 05 |
| | (c) Write short note on cyanogenetic glycosides. | 05 |
| Q.5 | (a) Define plant tissue culture. Discuss nutritional requirement for plant tissue culture. | 06 |
| | (b) Write a note on types of culture. | 05 |
| | (c) Enlist applications of plant tissue culture. Discuss Artificial seed. | 05 |
| Q. 6 | (a) Define coumarins. Write their therapeutic application with suitable example. | 06 |
| | (b) Discuss flavanoid glycosiedes. | 05 |
| | (c) Write a note on Hairy root culture. | 05 |
| Q.7 | (a) Define saponins. Write in details about properties and chemistry of saponins. | 06 |
| | (b) Discuss chemical constituents and uses of shatavari. | 05 |
| | (c) Write pharmacognosy of Liquorice. | 05 |
