

**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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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Define Glycosides. Classify them with appropriate examples.   | <b>06</b> |
|             | (b) write general method of isolation of glycosides.  | <b>05</b> |
|             | (c) Discuss different variety of mustard.   | <b>05</b> |
| <b>Q.2</b>  | (a) Enlist drug containing bitter glycosides. Discuss chemical constituents and uses of chirata.                  | <b>06</b> |
|             | (b) Discuss pharmacognosy of Quassia wood.  | <b>05</b> |
|             | (c) Draw and describe T.S. of Senna leaf.   | <b>05</b> |
| <b>Q.3</b>  | (a) Enlist drug containing anthraquinone cathartics. Give chemical test to distinguish different variety of aloe. | <b>06</b> |
|             | (b) Differentiate borntrager's test and modified borntrager's test with principle.                                | <b>05</b> |
|             | (c) Write a short note on Rhubarb.  | <b>05</b> |
| <b>Q.4</b>  | (a) Describe cultivation, collection, drying, storage and uses of Digitalis.                                      | <b>06</b> |
|             | (b) Differentiate cardenolides and bufadienolides.  | <b>05</b> |
|             | (c) Write short note on cyanogenetic glycosides.  | <b>05</b> |
| <b>Q.5</b>  | (a) Define plant tissue culture. Discuss nutritional requirement for plant tissue culture.                        | <b>06</b> |
|             | (b) Write a note on types of culture.   | <b>05</b> |
|             | (c) Enlist applications of plant tissue culture. Discuss Artificial seed.   | <b>05</b> |
| <b>Q. 6</b> | (a) Define coumarins. Write their therapeutic application with suitable example.                                  | <b>06</b> |
|             | (b) Discuss flavanoid glycosiedes.  | <b>05</b> |
|             | (c) Write a note on Hairy root culture.   | <b>05</b> |
| <b>Q.7</b>  | (a) Define saponins. Write in details about properties and chemistry of saponins.                                 | <b>06</b> |
|             | (b) Discuss chemical constituents and uses of shatavari.  | <b>05</b> |
|             | (c) Write pharmacognosy of Liquorice.   | <b>05</b> |

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