

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – WINTER -2019

Subject Code: 2260006**Date: 07-12-2019****Subject Name: Pharmacognosy-IV****Time: 02:30 PM TO 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.

- | | | |
|-------------|---|-----------|
| Q.1 | (a) Define alkaloids and write the types of alkaloid with suitable examples. | 06 |
| | (b) Write detailed procedure of method of isolation of alkaloids present in plant material. | 05 |
| | (c) Describe morphology and draw well labelled diagrams of morphology and microscopy of tylophora. | 05 |
| Q.2 | (a) Write a note on tropane alkaloids, draw structures and give list of drugs known as solanaceous alkaloid. | 06 |
| | (b) Differentiate between two varieties of ephedra. | 05 |
| | (c) Write a note on diterpene alkaloid containing drug used in cancer. | 05 |
| Q.3 | (a) Write a detailed note on steroidal alkaloids. | 06 |
| | (b) Write a detailed note on types of alkaloids present in rauwolfia and draw structures. | 05 |
| | (c) Write the difference between fibres from vegetable source and animal source. | 05 |
| Q.4 | (a) Describe the method of preparation of penicillinase. | 06 |
| | (b) Describe chemical test for identification of:
Atropine
Ergot alkaloids | 05 |
| | (c) Which are the important medicinal agents obtained from marine source? Give at least two examples in each class. | 05 |
| Q.5 | (a) Describe the method of preparation of papain and mention its uses. | 06 |
| | (b) Classify enzymes with suitable examples on the basis of their mode of action on substances. | 05 |
| | (c) Write the source and uses of talc and bentonite. | 05 |
| Q. 6 | (a) Write the source and use of:
Diastase
Ficin
Urokinase | 06 |
| | (b) Write the life cycle of ergot. Draw diagram showing each phase. | 05 |
| | (c) Write the source and chemical constituents of anticancer agents from marine source. | 05 |
| Q.7 | (a) Describe in details, each step of method of preparation and processing of tea. | 06 |
| | (b) Write a note on imidazole alkaloid containing drug. | 05 |
| | (c) Write a note on substance obtained from marine source used in <i>in-vivo</i> pharmacological testing of anti-inflammatory drugs on animals. | 05 |