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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 6 EXAMINATION - WINTER -2019

| Subject Code: 2260006 |
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| Subject Name: Pharmacognosy-IV |
| Time: 02:30 PM TO 05:30 PM |

Date: 07-12-2019

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

pharmacological testing of anti-inflammatory drugs on animals.
