

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 5 EXAMINATION – SUMMER -2019

Subject Code: 250006

Date: 10-06-2019

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) Give the biogenesis of Morphine. **06**
(b) Describe biosynthetic pathway for Hyoscyamine **05**
(c) write identification tests for alkaloids **05**
- Q.2** (a) Describe the life cycle of Ergot **06**
(b) Give morphological and microscopical characters of Quinazoline alkaloid containing drug. **05**
(c) Describe the processing of opium for market **05**
- Q.3** (a) Describe morphological and microscopical characters of Cinchona. **06**
(b) Give microscopical characters and chemical constituents of antihypertensive root drug **05**
(c) Write chemical constituents and uses of tropane alkaloid containing drug **05**
- Q.4** (a) Differentiate the followings:
i). *Rauwolfia serpentina* and *R. potatorum* ii) *Strychnos nuxvomica* & *Strychnos potatorum* **06**
(b) Describe the pharmacognosy of an anticancer herb. **05**
(c) Write a note on “chemistry of Ipecacuanha” **05**
- Q.5** (a) Comment on followings:
i. Meconic acid ii) Racemic mixture of dl- Hyoscyamine iii) Ergot is defatted before storage **06**
(b) Describe in detail pharmacognosy of Steroidal alkaloid containing drug. **05**
(c) Write in detailed note on drug used in Gout. **05**
- Q. 6** (a) Compare the morphological characters of various varieties of Datura leaf. **06**
(b) Write Biological source, family, chemical composition and toxicity of Hyoscyamus **05**
(c) Explain the concept of stereochemistry with suitable examples of natural products. **05**
- Q. 7** (a) Write a brief note on a technique used to study Biosynthetic pathways. **06**
(b) Write a note on alkaloidal amine containing drug **05**
(c) Write a note on Lobelia. **05**