

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VI • EXAMINATION – WINTER • 2015

Subject Code: 2260006

Date: 08/01/2016

Subject Name: Pharmacognosy-IV

Time: 02:30 pm - 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. Classify alkaloids according to the heterocyclic ring present in their structures giving examples in each class. **06**
(b) Describe properties and general tests for identification of Alkaloids. **05**
(c) Write in detail on drug used in amoebic dysentery. **05**
- Q.2** (a) Discuss life cycle of Ergot. **06**
(b) Describe pharmacognosy of drug having anti-malarial activity. **05**
(c) Draw chemical structure of followings; **05**
i) Cocaine ii) Morphine iii) Pilocarpine iv) Quinine v) Reserpine
- Q.3** (a) Differentiate between two species of alkaloidal amine containing drug used as bronchodilator. **06**
(b) Write the collection and processing of opium. **05**
(c) Give pharmacognosy of Coffee and describe procedure for isolation of caffeine. **05**
- Q.4** (a) Enlist Tropane Alkaloids and write Pharmacognostic profile of any one drug contain it. **06**
(b) Describe microscopical characters of Nux vomica seed. **05**
(c) Give chemical constituents, pharmacological actions and uses of an antihypertensive drug. **05**
- Q.5** (a) Write biological source and the method of preparation of Papain. **06**
(b) Give the pharmaceutical uses of enzymes. **05**
(c) Write a short note on Pepsin and Diastase. **05**
- Q.6** (a) "*Marine source has potential for novel medicines*"- Justify this statement. **06**
(b) Describe in details anticancer agent obtains from marine source. **05**
(c) Give the specific chemical tests for followings; **05**
i) Quinine ii) Atropine iii) Caffeine iv) Ergotoxine v) Strychnine
- Q.7** (a) Write importance of pharmaceutical aids in formulation development. **06**
(b) Write a note on Indian Tobacco. **05**
(c) Describe the pharmacognosy of Vinca. **05**
