

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem- Vth Examination December 2010

Subject code: 250006

Subject Name: Pharmacognosy IV

Date: 20 /12 /2010

Time: 02.30 pm – 05.30 pm

Instructions:

Total Marks: 80

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** Answer the following
- (a) Describe Photosynthesis **06**
 - (b) Write brief note on Tracer-technique **05**
 - (c) Give biosynthetic pathway for tyrosine **05**
- Q.2** Answer the following
- (a) Give pharmacognosy of Quinazoline alkaloid containing drug **06**
 - (b) Define and classify Alkaloids **05**
 - (c) Describe properties and general tests for identification of Alkaloids **05**
- Q.3** Answer the following
- (a) Discuss life cycle of Ergot **06**
 - (b) Enlist alkaloids with reduced Pyridine derivative and give its chemical constituents and uses **05**
 - (c) Write a brief note on Indian Ephedra **05**
- Q.4** Answer the following
- (a) Give pharmacognosy of Coffee and describe procedure for isolation of caffeine **06**
 - (b) Give the specific chemical tests for followings; **05**
i) Quinine ii) Atropine iii) Caffeine iv) Ergotoxine v) Strychnine
 - (c) Draw chemical structure of followings; **05**
i) Cocaine ii) Morphine iii) Pilocarpine iv) Quinine v) Reserpine
- Q.5** Answer the following
- (a) Enlist Tropane Alkaloids and write Pharmacognostic profile of any one drug contain it **06**
 - (b) Give pharmacognostic details of an anti-cancer drug **05**
 - (c) Describe pharmacognosy of drug having anti-malarial activity **05**
- Q. 6** Answer the following
- (a) Give adulterant and substitutes of Pilocarpus and Cola **06**
 - (b) Describe microscopical characters of Vasaka leaf. **05**
 - (c) Write macroscopical characters of Datura leaf and Kurchi bark **05**
- Q.7** Answer the following
- (a) Describe pharmacognosy of Vachhnag **06**
 - (b) Define and write types of stereoisomerism giving suitable examples **05**
 - (c) Write an assay on stereoisomerism of Alkaloids **05**
