

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Pharm. SEMESTER VI • EXAMINATION – SUMMER-2016**

**Subject Code:2260006****Date: 11/05/2016****Subject Name: Pharmacognosy-IV****Time: 10:30 AM to 1:30 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 and classify Alkaloids. Explain the chemical classification of alkaloids with suitable examples. **06**
- (b) Write the general chemical testes and isolation procedure of alkaloids. **05**
- (c) Write a note on any drug containing pyridine-piperidine alkaloid. **05**
- Q.2** (a) Enlist the Tropane alkaloid containing drugs and describe Datura in detail. **06**
- (b) Write a note on Ergot and explain the life cycle. **05**
- (c) Explain the Biological Source, chemical constituents and uses of Kurchi Bark. **05**
- Q.3** (a) Describe pharmacognosy of drug used as Antimalarial. **06**
- (b) Draw and explain the histology of Nux-vomica seed. **05**
- (c) Describe Tylophora. **05**
- Q.4** (a) Write a detailed note on Opium with their cultivation, collection and preparation. **06**
- (b) Describe the alkaloidal drug used as antihypertensive. **05**
- (c) Explain pharmacognosy of Vasaka leaf. **05**
- Q.5** (a) Explain the drug known as Ashwagandha in detail. **06**
- (b) Write the specific chemical tests for followings. **05**  
 I.Ergotamine ii. Strychnine & Brucine iii. Emetine iv. Tropane alkaloids v. Ephedrine
- (c) Write a detailed note on Streptokinase and Urokinase. **05**
- Q. 6** (a) Write a note on anticancer drug containing indole alkaloid. **06**
- (b) Write the differences between **05**  
 i. Rio Ipecac and Cartegena Ipecac  
 ii. Bolivian Cocca and Peruvian Cocca
- (c) Define Enzymes. Write a note on pepsin and vegetable pepsin. **05**
- Q.7** (a) What is Marine Pharmacognosy? Explain marine anticancer agents. **06**
- (b) Write Biological source, family, chemical constituents, uses and morphology of Aconite. **05**
- (c) Define and classify fibers. Write a note on Cotton. **05**

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