

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – V • EXAMINATION – WINTER 2013

Subject Code: 250006**Date: 09-12-2013****Subject Name: Pharmacognosy - IV****Time: 10.30 am - 01.30 pm****Total Marks: 80****Instructions:**

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

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| Q.1 | (a) Define and give the chemical classification of alkaloids. | 06 |
| | (b) Write the Life cycle of Ergot. | 05 |
| | (c) Give the Pharmacognosy of Imidazole alkaloid containing drug. | 05 |
| Q.2 | (a) Write the cultivation and collection of Opium. | 06 |
| | (b) Give the microscopy of Periwinkle. | 05 |
| | (c) Write a note on Acetate mevalonate pathway. | 05 |
| Q.3 | (a) Differentiate between the Bolivian coca and Peruvian coca. | 06 |
| | (b) Draw the chemical structure of Atropine, Caffeine, Ephedrine, Physostigmine, and Nicotine. | 05 |
| | (c) Describe the specific chemical tests of Quinine, Caffeine, Ergotoxine, Ephedrine and Atropine. | 05 |
| Q.4 | (a) Give the stereoisomerism of Alkaloids. | 06 |
| | (b) Write a note on Diterpene alkaloid. | 05 |
| | (c) Differentiate the Egyptian and European Henbane. | 05 |
| Q.5 | (a) Write the Properties and functions of alkaloids. | 06 |
| | (b) Write the adulterants of nuxvomica and Rauwolfia. | 05 |
| | (c) Write a note on Kadachhal. | 05 |
| Q.6 | (a) Give the chemical constituents and uses of Veratrum, colchicum and Lobelia. | 06 |
| | (b) Describe the microscopic characters of Ipecac. | 05 |
| | (c) Enlist the Tropane alkaloids and write pharmacognostic profile of any one drug contain it. | 05 |
| Q.7 | (a) Discuss on Tracer technique. | 06 |
| | (b) Describe the Pharmacognosy of Camptotheca. | 05 |
| | (c) Write a note on Shikimic acid pathway. | 05 |
