

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.**

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| 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.
I.Ergotamine ii. Strychnine & Brucine iii. Emetine iv. Tropane alkaloids v. Ephedrine | 05 |
| | (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
i. Rio Ipecac and Cartegena Ipecac
ii. Bolivian Cocca and Peruvian Cocca | 05 |
| | (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 |
