

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM SEMESTER-VI EXAMINATION – SUMMER-2017

Subject Code: 2260006

Date: 10/05/2017

Subject Name: Pharmacognosy IV

Time: 10:30 AM to 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 classify alkaloids. Classify alkaloids according to heterocyclic ring present in their structures giving examples in each class. | 06 |
| | (b) | Write the general chemical test and flow chart for isolation of alkaloids. | 05 |
| | (c) | Explain the life cycle of ergot with diagram. | 05 |
| Q.2 | (a) | Enlist the tropane alkaloid containing drugs and describe Datura in detail. | 06 |
| | (b) | Write the biological source, chemical constituents and uses of kurchi bark. | 05 |
| | (c) | Explain anticancer drug containing indole alkaloid. | 05 |
| Q.3 | (a) | Describe pharmacognosy of drug used as Antimalarial. | 06 |
| | (b) | Enlist the pyridine-piperidine alkaloid containing drugs and explain any one. | 05 |
| | (c) | Draw and explain the histology of nux vomica seed. | 05 |
| Q.4 | (a) | Write a note on morphology, cultivation, collection and preparation of Opium. | 06 |
| | (b) | Describe the alkaloidal drug used as antihypertensive. | 05 |
| | (c) | Describe the pharmacognosy of vasaka leaf | 05 |
| Q.5 | (a) | Write a note on drug known as Ashwagandha in detail. | 06 |
| | (b) | Explain pharmacognosy of ipecac in detail. | 05 |
| | (c) | Differentiate between two species of alkaloidal amine containing drug used as bronchodilator. | 05 |
| Q. 6 | (a) | Write the specific chemical tests for followings:
I.Ergotamine ii. Strychnine & Brucine iii. Caffeine iv. Tropane alkaloids v. Cinchona alkaloids | 06 |
| | (b) | Write a detailed note on pepsin and Vegetable pepsin. | 05 |
| | (c) | What is a pharmaceutical aid? Write a note on natural colours. | 05 |
| Q.7 | (a) | What is marine pharmacognosy? Explain marine anticancer drugs. | 06 |
| | (b) | Write source, family, chemical constituents, uses and morphology of drug containing Diterpene alkaloid. | 05 |
| | (c) | Define enzymes. Write a note on Streptokinase and Urokinase. | 05 |
