

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2019

Subject Code: 2260006**Date: 18-05-2019****Subject Name: Pharmacognosy-IV****Time: 02:30 PM TO 05:30 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 Alkaloids. Explain chemical Classification in detail with structure and examples. | 06 |
| | (b) Explain various methods for isolation of alkaloids. Write down physicochemical properties of it. | 05 |
| | (c) Write detail Pharmacognostical profile of Vinca. | 05 |
| Q.2 | (a) Write down botanical sources, cultivation , collection and uses of Opium. | 06 |
| | (b) Draw and describe transverse section of Nux vomica seed. | 05 |
| | (c) write down chemical test for following:
1. Quinine 2. Tropane alkaloid 3.Caffeine 4.Egotamine
5.Strychnine | 05 |
| Q.3 | (a) Define and classify fibres. Write a note on plant fibre. | 06 |
| | (b) Write down botanical sources, chemical constituents, uses of pyridine piperidine alkaloid containing drugs. | 05 |
| | (c) Write down detailed pharmacognosy of Ephedra. | 05 |
| Q.4 | (a) Write down detailed pharmacognosy of Withania. | 06 |
| | (b) Write a note on any one drug steroidal alkaloid containing drug. | 05 |
| | (c) Write down short note on Ergot. | 05 |
| Q.5 | (a) Define and Classify enzymes with suitable examples. | 06 |
| | (b) Give Biological source, method of preparation and uses of Papain. | 05 |
| | (c) Write a note on Urokinase and Pepsin. | 05 |
| Q. 6 | (a) Describe detailed pharmacognosy of Vasaka leaf. | 06 |
| | (b) Write down botanical sources, chemical constituents, uses of Purine alkaloid containing drugs. | 05 |
| | (c) Differentiate the following:
1. Rio Ipecac and Cartegenia Ipecac
2. Chotta chand and Bada chand | 05 |
| Q.7 | (a) What is Marine pharmacognosy? Explain various categories of novel medicinal agents from marine sources. | 06 |
| | (b) Write down detail Pharmacognosy of anti malarial drug. | 05 |
| | (c) Write down botanical sources, chemical constituents, uses of Colchicum and Pilocarpus. | 05 |