

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. – SEMESTER VI • EXAMINATION – WINTER -2021**

**Subject Code: 2260006****Date: 06/12/2021****Subject Name: PHARMACOGNOCY-IV****Time: 02:30pm to 05:30pm****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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|------------|--|-----------|
| <b>Q.1</b> | (a) Discuss the procedure used for the isolation of alkaloids.   | <b>06</b> |
|            | (b) Enlist various opium alkaloids with their pharmacological properties.  | <b>05</b> |
|            | (c) Explain the microscopy of Nux-Vomica seed with proper diagram. Name the active chemical constituents present in the seed and the pharmacological uses. | <b>05</b> |
| <b>Q.2</b> | (a) Describe the alkaloidal drug, exhibiting prominent anti-hypertensive action.   | <b>06</b> |
|            | (b) Describe the saprophytic production of ergot alkaloids.  | <b>05</b> |
|            | (c) Write Biological source, preparation, uses and identification tests of natural enzyme Papain.  | <b>05</b> |
| <b>Q.3</b> | (a) Discuss microscopy and macroscopy of Vasaka leaf. Write its uses and any marketed preparation.   | <b>06</b> |
|            | (b) Give pharmacognostic details of Datura.  | <b>05</b> |
|            | (c) Write the Biological source, Chemical constituents and uses of Kantakari.  | <b>05</b> |
| <b>Q.4</b> | (a) Give the classification of alkaloids. Write the physical and chemical properties of the same.  | <b>06</b> |
|            | (b) Classify Marine medicinal agents based upon their therapeutic action.  | <b>05</b> |
|            | (c) Describe in details anticancer agents obtained from marine source  | <b>05</b> |
| <b>Q.5</b> | (a) Write a note on Imidazole alkaloids; Discuss a drug containing imidazole alkaloid for its pharmaceutical importance.                                   | <b>06</b> |
|            | (b) Describe the specific chemical tests of Quinine, Caffeine, and Piperine.   | <b>05</b> |
|            | (c) Describe pharmacognosy of the drug that is used for Antimalarial properties.   | <b>05</b> |
| <b>Q.6</b> | (a) Define Pharmaceutical aids. Write a short note on Talc as pharmaceutical aid.  | <b>06</b> |
|            | (b) Write a short note on Natural colors.  | <b>05</b> |
|            | (c) Give classification of the fibres with proper examples.  | <b>05</b> |
| <b>Q.7</b> | (a) Write the Pharmacognosy and phytochemistry of tobacco along with the cultivation methods.  | <b>06</b> |
|            | (b) Define and classify enzymes with suitable examples.  | <b>05</b> |
|            | (c) Give biological source, preparation, identification test and uses of Urokinase.  | <b>05</b> |

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