

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER– VI - EXAMINATION – WINTER -2022

Subject Code: 2260006**Date: 04/01/2023****Subject Name: Pharmacognosy - 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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| Q.1 | (a) Define Alkaloids. Discuss its physical properties and give any two chemical identification test of it. | 06 |
| | (b) Describe life cycle of Ergot with suitable diagram. | 05 |
| | (c) Write a note on Botanical source, chemical constituent and uses of Rauwolfia. | 05 |
| Q.2 | (a) Write a note on chemical classification Alkaloids with suitable examples from each class. | 06 |
| | (b) Write a note on Botanical source, chemical constituent and cultivation & collection of Opium. | 05 |
| | (c) Write a note on Botanical source, family, chemical constituent and uses of Cinchona bark. | 05 |
| Q.3 | (a) Write a note on Botanical source preparation and uses of followings Enzymes (Any Two):
i. Trypsin ii. Urokinase iii. Pancreatin | 06 |
| | (b) Describe the pepsin enzyme in detail. | 05 |
| | (c) Write a short note on Diastase and Penicillinase enzymes. | 05 |
| Q.4 | (a) Define the term Pharmaceutical Aids. Give the classification of fibres and discuss in detail on Cotton fibre. | 06 |
| | (b) Give the botanical source, chemical constituents and uses of five natural coloring agents. | 05 |
| | (c) Write a brief note on anti-cancer agent obtained from marine source. | 05 |
| Q.5 | (a) Describes the Pharmacognosy of any drugs which contains Steroidal Alkaloids. | 06 |
| | (b) Write a note on Tobacco and Ipecac. | 05 |
| | (c) Write a note on Botanical source, family, chemical constituent and uses of Pilocarpus and Tylophora. | 05 |
| Q. 6 | (a) Give the Active Botanical source, active constituent and uses of followings (Any three)
i. Aconite ii. Coffee iii. Lobelia iv. Withania | 06 |
| | (b) Give morphological and microscopical difference of various varieties of <i>Datura metal</i> and <i>Datura innoxia</i> . | 05 |
| | (c) Write a note on microscopy of Nuxvomica and Tobacco. | 05 |
| Q.7 | (a) Describe the principles and general method of isolation of Alkaloids. | 06 |
| | (b) Write a short note on Vasaka and Piper. | 05 |
| | (c) Write short note on Talc and Diatomite. | 05 |