

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 6 EXAMINATION – WINTER -2024**

**Subject Code: 2260006****Date: 25-11-2024****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.

- Q.1** (a) Discuss vinca alkaloids and their semisynthetic derivatives keeping in view their therapeutic usage. **06**
- (b) Give details on specific chemical tests of following alkaloid containing drugs belladonna, tobacco, tea and nuxvomica **05**
- (c) Discuss sources, structure and uses of pilocarpine and physostigmine. **05**
- Q.2** (a) What is atropine? draw its structure and discuss its sources and importance. **06**
- (b) Discuss importance of in hyaluronidase and streptokinase. **05**
- (c) Write a note on natural colours. **05**
- Q.3** (a) Write in details about cultivation and collection of cinchona and enlist its adulterants. **06**
- (b) Give biological source, preparation, and uses of bromalein. **05**
- (c) Write about medicinal agents from marine sources of therapeutic significance **05**
- Q.4** (a) Write a note on steroidal alkaloid containing drugs. **06**
- (b) Give details on Camptotheca alkaloids and their derivatives. **05**
- (c) Discuss preparation of penicillinase. **05**
- Q.5** (a) Write a note on microscopic features of roots of Ipecac. **06**
- (b) Discuss therapeutic importance of ergot alkaloids. **05**
- (c) Give details about talc and bentonite. **05**
- Q. 6** (a) Write a comparative note on different Rauwolfia species. **06**
- (b) Define pharmaceutical aids and write about their significance. **05**
- (c) Write a note on taxus. **05**
- Q.7** (a) Discuss a crude drug containing Quinazoline alkaloids. **06**
- (b) Write in details about cultivation and collection of Opium. **05**
- (c) Write a note on Dubosia, **05**

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