

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2020**

**Subject Code: 2260006****Date:04-11-2020****Subject Name: Pharmacognosy-IV****Time: 10:30 AM TO 1:30 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) What is Marine Pharmacognosy? Explain marine anticancer agents. **06**  
(b) Write a note on Ergot and explain the life cycle. **05**  
(c) Explain pharmacognosy of Datura leaf. **05**
- Q.2** (a) Write a note on anticancer drug containing indole alkaloid. **06**  
(b) Write Biological source, family, chemical constituents, uses and morphology of Aconite. **05**  
(c) Draw and explain the microscopy of Nux-vomica seed. **05**
- Q.3** (a) Define fibres. Write a note on Animal fibres. **06**  
(b) Give the uses of following crude drugs **05**  
(1) Ficin (2) Streptokinase (3) Kantkari (4) Tylophora (5) Tobacco  
(c) Name different species of Cinchona and describe cultivation and collection of cinchona in india. **05**
- Q.4** (a) Define alkaloids. Discuss general properties and method of isolation of alkaloids. **06**  
(b) Write a short note on Natural colours. **05**  
(c) Give biological sources, active constituents and uses of following **05**  
i) Belladonna ii) Withania.
- Q.5** (a) Describe biological sources, geographical sources, cultivation, collection and preparations of Opium in India. **06**  
(b) Draw labelled diagram showing morphological and microscopical characters of ephedra. **05**  
(c) Give the morphological and microscopical diagram of cinchona bark. **05**
- Q.6** (a) Draw labelled diagram showing morphological and microscopical characters of rauwolfia. **06**  
(b) Write a detailed note on trypsin and pancreatin. **05**  
(c) Describe Biological source, preparation, chemical test and uses of papain. **05**
- Q.7** (a) Write a note on Purine alkaloids. **06**  
(b) Draw labelled diagram showing morphological and microscopical characters of vasaka leaf. **05**  
(c) Give the uses of following crude drugs **05**  
(1) Ipecac (2) Cocca (3) Pilocarpus (4) Colchicum (5) Taxus

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