

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – V EXAMINATION – WINTER-2025

Subject Code: BP503TP

Date:20-11-2025

Subject Name: Pharmacognosy and Phytochemistry II

Time: 10:30 AM TO 01:30 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) Differentiate following **06**
(i) Cinnamon bark and Cassia bark
(ii) Guggul and Salai guggul
(b) Draw detail diagram of TS of Ephedra stem. **05**
(c) Explain in detail the drug with potent analgesic (used in extreme pain) effect with its collection **05**
- Q.2** (a) Describe the pathway by which amino acids are synthesized. **06**
(b) Write different methods of tracer techniques in the investigation of Biogenetic studies. **05**
(c) Explain entire pharmacognosy of Kunwarpathu with its preparation. **05**
- Q.3** (a) Give BS, CC and Uses of Sarpgandha and Jethimadh. **06**
(b) Explain in detail the drug used as Dental analgesic with adulterants. **05**
(c) Write BS, CC and Uses of Senna and Digitalis. **05**
- Q.4** (a) Give Isolation, Identification and Analysis of Caffeine. **06**
(b) Give Isolation, Identification and Analysis of Curcumin. **05**
(c) Give Isolation, Identification and Analysis of Glycyrrhetic acid. **05**
- Q.5** (a) Describe Industrial production and Utilization of Digoxin and Atropine. **06**
(b) Describe Industrial production, Estimation and Utilization of Taxol. **05**
(c) Describe Industrial production and Utilization of Sennoside and Pdophyllotoxin. **05**
- Q. 6** (a) Discuss in detail biogenetic pathway for synthesis of terpenoids. **06**
(b) Define extraction. Enlist various methods of extraction and discuss any one in detail with suitable diagram. **05**
(c) Explain application of chromatography in Isolation, Purification and Identification of crude drugs. **05**
- Q.7** (a) Differentiate following **06**
(i) Two varieties of Senna.
(ii) Two varieties of Catechu.
(b) Draw TS of drug known as Dalchini. **05**
(c) Write Isolation, Identification and Analysis of Quinine. **05**
