

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 3 EXAMINATION – SUMMER-2025

Subject Code: BP305TP

Date: 06 - 06 - 2025

Subject Name: Pharmacognosy and Phytochemistry I

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.

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|-------------|---|-----------|
| Q.1 | (a) Define Pharmacognosy. Discuss its scope and development in brief. | 06 |
| | (b) Enlist Classification methods of Crude drugs. Discuss chemical classification of crude drugs with examples. | 05 |
| | (c) Define adulteration. Describe various types of adulteration for crude drugs. | 05 |
| Q.2 | (a) What is evaluation of the crude drugs? Explain quantitative microscopic evaluation of the crude drugs. | 06 |
| | (b) Enlist different sources of crude drugs. Describe in detail about novel agent from Marine sources. | 05 |
| | (c) Define conservation and give note on conservation of medicinal plants. | 05 |
| Q.3 | (a) Explain various factors affects cultivation of medicinal plants. | 06 |
| | (b) Describe importance of Plant Growth regulators. | 05 |
| | (c) Discuss application of polyploidy in medicinal plants. | 05 |
| Q.4 | (a) Discuss importance of papain, urokinase and bromelain. | 06 |
| | (b) Define Plant tissue culture. Write a note on type of cultures. | 05 |
| | (c) Define glycoside. Classify glycoside and write properties of glycoside. | 05 |
| Q.5 | (a) Write biological source, family, chemical composition and use of Acacia and Guar gum. | 06 |
| | (b) Write note on edible vaccine. | 05 |
| | (c) Discuss the role of pharmacognosy in allopathy. | 05 |
| Q. 6 | (a) Write biological source, family, chemical composition and use of castor oil and wool fat. | 06 |
| | (b) Write composition of Nutritional media in Plant tissue culture. | 05 |
| | (c) Define alkaloid. Classify alkaloids with examples. | 05 |
| Q.7 | (a) Enlist Traditional medicinal systems. Write Principle of Ayurveda. | 06 |
| | (b) Define Fibres. Classify them and write note on cotton in detail. | 05 |
| | (c) Write difference between hydrolysable and condensed tannins. | 05 |
