

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. - SEMESTER– III • EXAMINATION – WINTER -2025**

**Subject Code: BP305TP****Date: 17/12/2025****Subject Name: Pharmacognosy and Phytochemistry I****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.

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|-------------|-----|---|-----------|
| <b>Q.1</b>  | (a) | Enlist with examples the methods employed for deliberate adulteration.  | <b>06</b> |
|             | (b) | How does chemical method help in evaluation of crude drugs? Give examples.                                    | <b>05</b> |
|             | (c) | What do you mean by chemotaxonomical classification of crude drugs?   | <b>05</b> |
| <b>Q.2</b>  | (a) | Classify crude drugs based on the chemical class of tannins.  | <b>06</b> |
|             | (b) | With a flow chart show the method of extraction of alkaloids.   | <b>05</b> |
|             | (c) | Write a short note on history of Pharmacognosy.   | <b>05</b> |
| <b>Q.3</b>  | (a) | Classify crude drugs based on the chemical class of alkaloids.  | <b>06</b> |
|             | (b) | What is scope of Pharmacognosy?   | <b>05</b> |
|             | (c) | Write a short note on plant enzymes.  | <b>05</b> |
| <b>Q.4</b>  | (a) | How does sugar differ from invert sugar chemically? How is it applicable for making artificial honey?         | <b>06</b> |
|             | (b) | Give composition of nutrient media used in plant tissue culture.  | <b>05</b> |
|             | (c) | State the importance of conservation of medicinal plants by various methods.                                  | <b>05</b> |
| <b>Q.5</b>  | (a) | Differentiate different types of starch based on their biological source, surface and microscopic characters. | <b>06</b> |
|             | (b) | Write the applications of plant tissue culture technique.   | <b>05</b> |
|             | (c) | Write a short note on natural allergens.  | <b>05</b> |
| <b>Q. 6</b> | (a) | Which are the factors influencing cultivation of medicinal plants?  | <b>06</b> |
|             | (b) | Explain the fundamental principles of Homeopathic system of medicine.   | <b>05</b> |
|             | (c) | Write a short note on plant hormones.   | <b>05</b> |
| <b>Q.7</b>  | (a) | Discuss the basic principles of Ayurvedic system of medicine.   | <b>06</b> |
|             | (b) | Write a note on the novel medicinal agents obtained from marine sources.                                      | <b>05</b> |
|             | (c) | What is allelopathy?  | <b>05</b> |

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