

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph.– SEMESTER-III • EXAMINATION – SUMMER -2024**

**Subject Code: BP305TP****Date: 19/06/2024****Subject Name: Pharmacognosy and Phytochemistry-I****Time: 02:30pm to 05:30pm****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) | What are crude drugs? Write the difference between organized and unorganized drug with suitable example.                                | 06 |
|     | (b) | Enlist different types of classification of crude drugs? Write a short note on chemo-taxonomic and alphabetical type of classification. | 05 |
|     | (c) | Define adulteration of crude drug? Discuss intentional adulteration with example.   | 05 |
| Q.2 | (a) | Write the following chemical tests:<br>(i) Shinoda test (ii) Borntrager's test (iii) Match stick test                                   | 06 |
|     | (b) | Define Pharmacognosy. Discuss scope and development of Pharmacognosy.   | 05 |
|     | (c) | Write note on morphological and microscopical methods of evaluation of crude drugs.   | 05 |
| Q.3 | (a) | Give the composition of nutrient media used in plant tissue culture.  | 06 |
|     | (b) | Draw and different stages of plant tissue culture technique.  | 05 |
|     | (c) | Write the applications of plant tissue culture techniques.  | 05 |
| Q.4 | (a) | Report on external factors affecting cultivation of medicinal plants  | 06 |
|     | (b) | Discuss asexual methods of propagation with suitable example.   | 05 |
|     | (c) | Write a note on collection and processing of the cultivated plants.   | 05 |
| Q.5 | (a) | Give classification, properties, identification tests and uses of Alkaloids.  | 06 |
|     | (b) | Write importance and methods of conservation of medicinal plants.   | 05 |
|     | (c) | Write a note on Plant hormones.   | 05 |
| Q.6 | (a) | Define Enzymes. Discuss Gelatin and Papain as pharmaceutical aids in brief.   | 06 |
|     | (b) | Write biological source, chemical constituents and uses of the following:<br>(i) Castor oil (ii) Honey (iii) Cotton                     | 05 |
|     | (c) | What are Natural allergens? Write briefly on each class of allergens.   | 05 |
| Q.7 | (a) | Write a note on novel medicinal agents obtained from marine sources.  | 06 |
|     | (b) | Discuss the basic principles of Ayurvedic system of medicine.   | 05 |
|     | (c) | Explain the fundamental principles of Homeopathic system of medicine.   | 05 |

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