

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER III • EXAMINATION – SUMMER -2021**

**Subject Code: BP305TP****Date: 02/09/2021****Subject Name: Pharmacognosy & 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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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Define Pharmacognosy. Describe scope & development of Pharmacognosy.  | <b>06</b> |
|             | (b) Write a note on Physical evaluation of crude drugs in detail.   | <b>05</b> |
|             | (c) Discuss in brief plants & animals as a source of crude drugs with suitable examples.                                      | <b>05</b> |
| <b>Q.2</b>  | (a) Explain Polyploidy and its role in cultivation of medicinal plants.   | <b>06</b> |
|             | (b) Define adulteration. Describe various types of adulteration for crude drugs.  | <b>05</b> |
|             | (c) Define & classify Glycosides in detail with suitable examples.  | <b>05</b> |
| <b>Q.3</b>  | (a) Write a note on nutritional requirements for Plant tissue culture.  | <b>06</b> |
|             | (b) Define Plant tissue culture. Write a note on Cell Suspension culture.   | <b>05</b> |
|             | (c) Enlist various extrinsic factors affecting to the cultivation of medicinal plants. Explain any two in detail.             | <b>05</b> |
| <b>Q.4</b>  | (a) Give following chemical tests: (i) Goldbeater's skin test<br>(ii) Modified Borntrager's test<br>(iii) Keller Kiliani test | <b>06</b> |
|             | (b) Define Alkaloids. Give physical & chemical properties of Alkaloids.   | <b>05</b> |
|             | (c) Write a note on Ayurvedic system of Medicine in detail.   | <b>05</b> |
| <b>Q.5</b>  | (a) Define Protoplast. Describe Protoplast culture in detail.   | <b>06</b> |
|             | (b) Write a note on Natural allergens.  | <b>05</b> |
|             | (c) Discuss about Vegetable Pepsin enzyme in detail.  | <b>05</b> |
| <b>Q. 6</b> | (a) Write biological source, family, chemical constituents & uses of Bees wax & Chaulmoogra oil.                              | <b>06</b> |
|             | (b) Write the biological source, family, method of preparation and uses of Honey.   | <b>05</b> |
|             | (c) Differentiate followings: (i) Fixed Oils & Volatile Oils<br>(ii) Organized crude drugs & Unorganized crude drugs          | <b>05</b> |
| <b>Q.7</b>  | (a) Write a note on any two plant growth regulators.  | <b>06</b> |
|             | (b) Describe Pharmacological classification of crude drugs with examples.   | <b>05</b> |
|             | (c) Write a note on different leaf constants.   | <b>05</b> |