

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 3 EXAMINATION – SUMMER -2020**

**Subject Code: BP305TP****Date:29-10-2020****Subject Name: Pharmacognosy and Phytochemistry I****Time: 2:30 PM TO 5:30 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) | Draw and label different stages in plant tissue culture techniques.   | 06 |
|     | (b) | Write Synonyms. Biological sources. Chemical Constituents and Uses of Tragacanth gum.   | 05 |
|     | (c) | I) True or False – Chemical classification of drugs is based on biological nature of their active constituents<br>II) Write brief note on chemical classification of crude drugs.   | 05 |
| Q.2 | (a) | 1. Comment on followings.<br>I) Theophrastus is first pharmacist of world<br>II) The organized drug is lacunae of morphology and anatomical Characteristics.<br>III) Wheat starch is complex type of starch.<br>2. Write note on intentional methods of adulteration with examples. | 06 |
|     | (b) | Define nutritional media. Discuss composition of it.  | 05 |
|     | (c) | Write Pharmacognosy of lipid containing drug which used in constipation.  | 05 |
| Q.3 | (a) | Enlist factor affecting cultivation of Medicinal Plants. Discuss any two environmental factors in details.  | 06 |
|     | (b) | Discuss advantages and disadvantages of Plant tissue culture over traditional cultivation techniques.   | 05 |
|     | (c) | Define Enzyme. Enlist enzyme from plant. Write brief note on any one in detail.   | 05 |
| Q.4 | (a) | Enlist evaluation method of crude drug. Discuss WHO guideline for it.   | 06 |
|     | (b) | Discuss role of Pharmacognosy in Ayurvedic system of medicines.   | 05 |
|     | (c) | Write rationale and methods of conservation of medicinal plants.  | 05 |
| Q.5 | (a) | Define Pharmacognosy. Discuss Importance of it in health care system.   | 06 |
|     | (b) | Enlist sources of crude drugs with examples. Discuss drugs from animal sources.   | 05 |
|     | (c) | Write note on novel medicinal agents from Marine sources.   | 05 |
| Q.6 | (a) | Write definition, classification and chemical test for Tannins.   | 06 |
|     | (b) | What is Honey? Write Natural Preparation Process and collection of it.  | 05 |
|     | (c) | Write note on Phytohormones.  | 05 |
| Q.7 | (a) | I) Differentiate : Primary constituents V/S Secondary Constituents<br>II) Write definition. classification and properties for fibers.   | 06 |
|     | (b) | Define cultivation. Discuss methods of it.  | 05 |
|     | (c) | Enlist biotechnological techniques to improve quality of medicinal plant. Write any one in detail.  | 05 |

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