

**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.

- 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 05  
 II) Write brief note on chemical classification of crude drugs.
- Q.2**
- (a) 1. Comment on followings. 06  
 I) Theophrastus is first pharmacist of world  
 II) The organized drug is lacunae of morphology and anatomical Characteristics.  
 III) Wheat starch is complex type of starch.  
 2. Write note on intentional methods of adulteration with examples.
- (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 06  
 II) Write definition, classification and properties for fibers.
- (b) Define cultivation. Discuss methods of it. 05
- (c) Enlist biotechnological techniques to improve quality of medicinal plant. Write any one in detail. 05