

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 3 EXAMINATION – WINTER -2019**

**Subject Code: BP305TP****Date: 25-11-2019****Subject Name: Pharmacognosy and Phytochemistry I****Time: 10:30 TO 01:30PM****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) Define Pharmacognosy. Discuss in brief about scope and development of Pharmacognosy. **06**
- (b) Enlist sources of crude drugs. Describe in brief about marine and animal sources of crude drugs. **05**
- (c) Name different traditional system of medicine. Discuss Ayurvedic system of medicine in details. **05**
- Q.2** (a) What is drug evaluation? Write down different types of evaluation of crude drugs. Explain physical evaluation of crude drugs in details. **06**
- (b) Differentiate organized and unorganized crude drug with examples. **05**
- (c) Explain plant growth regulators in details. **05**
- Q.3** (a) Define crude drug. Enlist different method of classification. Discuss pharmacological classification of crude drug with examples. **06**
- (b) Define following : **05**
1. Resin                      2. Gum  
3. Stomata                    4. Trichome      5. Mucilage
- (c) Write down biological source, properties, uses and method of preparation of honey. **05**
- Q.4** (a) Differentiate following: **06**
1. Hydrolysable tannin and condensed tannin  
2. Gum acacia and gum tragacanth  
3. Fixed oil and Volatile oil
- (b) What is adulteration of crude drug? Discuss different types of adulteration with suitable example. **05**
- (c) Give biological source, chemical constituent, uses of castor oil and wool fat. **05**
- Q.5** (a) Enlist factor affecting cultivation of crude drugs. Explain in details extrinsic factors. **06**
- (b) Define Glycoside. Discuss its classification and properties in details. **05**
- (c) Write a note on mutation and hybridization. **05**
- Q. 6** (a) Define plant tissue culture. Explain composition of nutrient media in details. **06**
- (b) Write a note on different types of culture. **05**
- (c) Write down short note on Natural allergen. **05**
- Q.7** (a) Define alkaloid. Discuss classification and properties in details. **06**
- (b) Define Carbohydrate. Write a note on starch and Guar gum. **05**
- (c) Write a note on plant fibers. **05**

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