

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.

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|-------------|--|-----------|
| 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 :
1. Resin 2. Gum
3. Stomata 4. Trichome 5. Mucilage | 05 |
| | (c) Write down biological source, properties, uses and method of preparation of honey. | 05 |
| Q.4 | (a) Differentiate following:
1. Hydrolysable tannin and condensed tannin
2. Gum acacia and gum tragacanth
3. Fixed oil and Volatile oil | 06 |
| | (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 |