

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 2 EXAMINATION – SUMMER -2019

Subject Code: 220005

Date: 07-06-2019

Subject Name: Pharmacognosy - I

Time: 10:30 AM TO 01:30 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 | Define the term Pharmacognosy; write its scope and development. | 06 |
| | b | Define Tannins. Classify tannins and write its properties. | 05 |
| | c | What are Trichomes? Write different types of trichomes and their function in plants. | 05 |
| Q.2 | a | Write biological source, family, chemical constituent and uses of
1. Castor oil
2. Isabgol | 06 |
| | b | Explain Aerial, sub-aerial and Underground modification of Stems. | 05 |
| | c | What are the morphological and histological features of monocot and dicot stem? | 05 |
| Q.3 | a | What is Adulteration of crude drugs. Discuss different types of adulteration with suitable examples. | 06 |
| | b | Write a detail note on Agar. | 05 |
| | c | Write methods of preparation of different starches. | 05 |
| Q.4 | a | Define evaluation of crude drugs. Discuss chemical method of evaluation. | 06 |
| | b | Write a detail note on Honey. | 05 |
| | c | Give chemical test for fixed oils and fats. How will you detect sesame oil as an adulterant? | 05 |
| Q.5 | a | Describe various sources of crude drugs with examples. | 06 |
| | b | Define leaf? Describe parts of leaf with neat labeled diagram. Classify leaves on the basis of shape of leaf and margin. | 05 |
| | c | What are stomata? Write types of stomata & functions. | 05 |
| Q.6 | a | Write a note on plant hormones and their applications. | 06 |
| | b | Define Breathing roots, Stilt root, Parasitic root, Tap root and Endospermic seed with examples. | 05 |
| | c | What are fruits? Write a note on types of fruits. | 05 |
| Q.7 | a | Describe different methods of classification of crude drugs with suitable examples. | 06 |
| | b | What are the factors affecting the cultivation, collection and processing of crude drugs? | 05 |
| | c | Write biological source, chemical constituents and uses of coca butter. | 05 |