

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.

- 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 **06**
 - 1. Castor oil
 - 2. Isabgol
 - 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**