

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Pharm - SEMESTER- III EXAMINATION – WINTER -2019****Subject Code:2230006****Date: 27/11/2019****Subject Name: Pharmacognosy-I****Time:10:30AM 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) What is Pharmacognosy? Describe its history and scope for future drug development. **06**  
(b) Differentiate between monocot and dicot root, both morphologically and microscopically. **05**  
(c) Define Fruit. Write the classification of it with examples. **05**
- Q.2** (a) Define Crude drugs, classify them, and explain chemical classification with suitable example. **06**  
(b) What are plant growth hormones? How do they regulate the growth of plants? **05**  
(c) Define carbohydrates. Write properties and identification test for it. **05**
- Q.3** (a) How Fertilizers and Manures affect cultivation and growth of medicinal plants? **06**  
(b) Describe the terms mutation and hybridization and explain their role in cultivation of medicinal plants. **05**  
(c) Define Lipids. Write classification of it and chemical test for it. **05**
- Q.4** (a) Define glycosides. Classify them with suitable examples and write properties. **06**  
(b) Define Alkaloids and Tannins. Add note on classification, properties and chemical test of alkaloids. **05**  
(c) Differentiate fixed oil and volatile oil. **05**
- Q.5** (a) Write note on Pharmacognosy of Indian gum. **06**  
(b) Describe the chemical tests for detection of following oils as an adulterant : i) Castor oil ii) Karanj oil iii) Linseed oil iv) Sesame oil v) Cotton seed oil. **05**  
(c) What do you mean by active constituents? Explain with suitable examples. **05**
- Q.6** (a) Write a note on preparation and uses of castor oil. **06**  
(b) Write Synonym, Biological source, Chemical constituents and Uses of Isapgol seed. **05**  
(c) Discuss physical evaluation of crude drugs. **05**
- Q.7** (a) What is the biological source, properties and method of preparation of honey? What are its uses? **06**  
(b) Define Leaf. Write function of it. Differentiate simple leaf and compound leaf. **05**  
(c) Write synonym, Biological source, Chemical constituents & uses of Starch. **05**

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