

Seat No.: _____

Enrolment No. _____

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

Subject Code: 2230006**Date: 21-05-2019****Subject Name: Pharmacognosy-I****Time: 02:30 PM TO 05:30 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 lipids. Explain its physicochemical properties and classification with example. **06**
- (b) Write note on source, general method of preparation and systematic pharmacognostic study of Castor oil. **05**
- (c) Write botanical source, family, chemical constituent and use of Beeswax and Kokum butter **05**
- Q.2** (a) Define carbohydrates. Discuss classification and identification of test of carbohydrate in detail. **06**
- (b) Give biological source, family, chemical constituent and use of any two drugs from gums and mucilage family. **05**
- (c) Discuss biological source, properties, method of preparation and uses of honey. **05**
- Q.3** (a) Define alkaloids. Write down chemical classification of alkaloids with examples. **06**
- (b) What are plant growth regulators? How do they influence the growth of plants? **05**
- (c) Write a note on quantitative microscopy. **05**
- Q.4** (a) Define crude drugs. Classify them and differentiate organised and unorganised crude drugs. **06**
- (b) Define root. Write functions of root and discuss various modification of root. **05**
- (c) Differentiate monocot and dicot stem microscopically. **05**
- Q.5** (a) Enumerate various types of classification method of crude drug. Explain role of chemotaxonomy in classification. **06**
- (b) Describe the terms mutation and hybridization and explain their role in cultivation of medicinal plants. **05**
- (c) Write note on green houses for cultivation. **05**
- Q. 6** (a) Enumerate factors influencing cultivation of medicinal plants. Explain how types of soil influence on it. **06**
- (b) Define a) palisade ratio b) stomatal index c) adulteration **05**
 d) polyploidy e) saponification value.
- (c) Draw and label different types of shape of leaf. **05**
- Q.7** (a) Define gums. Differentiate gum acacia and gum tragacanth. **06**
- (b) Define tannins. Classify it and mention identification test of tannins. **05**
- (c) Write a note on history, scope and development of pharmacognosy. **05**
