

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.

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|-------------|------------|--|-----------|
| 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
d) polyploidy e) saponification value. | 05 |
| | (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 |
