

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-3 • EXAMINATION – SUMMER -2018

Subject Code: 2230006**Date: 28/04/2018****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 Pharmacognosy. Discuss in detail about its scope and development. | 06 |
| | (b) | Define crude drugs. Differentiate between organized and unorganized drugs. Give morphological classification of crude drugs with suitable examples. | 05 |
| | (c) | Give types of sources of crude drugs. Discuss in detail about minerals as a source of crude drugs. | 05 |
| Q.2 | (a) | Define volatile oils. Write in detail about its classification and properties with examples. | 06 |
| | (b) | Draw a well labeled transverse section of dicot stem and discuss in brief about it. | 05 |
| | (c) | What is fruit. Classify it with suitable examples. | 05 |
| Q.3 | (a) | Write a brief note on mutation and hybridization. | 06 |
| | (b) | Describe a chemical tests to detect following from crude drugs:
a) Flavonoids glycoside b) Saponin glycoside c) Tannins
d) Desoxysugar e) Anthraquinone glycoside | 05 |
| | (c) | What is drug evaluation? Why is it required? Write in brief about physical evaluation. | 05 |
| Q.4 | (a) | Write a note on castor oil and hydnocarpus oil. | 06 |
| | (b) | Define: a) Saponification value b) Swelling factor c) Alkaloids
d) Trichome e) Stomata | 05 |
| | (c) | Differentiate between a) Gum vs Mucilage b) Volatile oils vs Fixed oil | 05 |
| Q.5 | (a) | Write a pharmacognostic note on Isabgul husk and Indian gum. | 06 |
| | (b) | Write down, biological source, chemical constituent, method of preparation and uses of agar. | 05 |
| | (c) | What is starch? Write in detail about biological source, preparation and uses of maize starch. | 05 |
| Q. 6 | (a) | Describe in detail about factors affecting cultivation, collection and processing of crude drugs. | 06 |
| | (b) | Write a note on leaf constants. | 05 |
| | (c) | Write a note on application of plant growth regulators. | 05 |
| Q.7 | (a) | Write down a pharmacognostic profile of woolfat and cod liver oil. | 06 |
| | (b) | Define adulteration. Write in brief about types of drug adulteration with examples. | 05 |
| | (c) | Define lipids. Classify it with examples. Write down its properties. | 05 |