

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

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

**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.

- Q.1** (a) Define Pharmacognosy. Discuss in detail about its scope and development. **06**  
(b) Define crude drugs. Differentiate between organized and unorganized drugs. **05**  
Give morphological classification of crude drugs with suitable examples.  
(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: **05**  
a) Flavonoids glycoside b) Saponin glycoside c) Tannins  
d) Desoxysugar e) Anthraquinone glycoside  
(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 **05**  
d) Trichome e) Stomata  
(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**

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