

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – IV • EXAMINATION – SUMMER • 2015**

**Subject Code: 2240006**

**Date: 10-06-2015**

**Subject Name: Pharmacognosy - II**

**Time: 10:30 am To 01:30 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) Describe cultivation, collection, active constituents and uses of cardamom. **06**  
(b) Differentiate siam benzoin and sumatra benzoin. **05**  
(c) Describe botanical source, chemical constituents and uses of cannabis. **05**
- Q.2** (a) Define tannins. Classify it with suitable examples and write their general chemical tests. **06**  
(b) Write a note on botanical source, morphology, chemical constituents, and uses of myrobalan. **05**  
(c) Differentiate black catechu and pale catechu. **05**
- Q.3** (a) Give detail pharmacognostic profile of nutmeg. **06**  
(b) Write a note on any one oleo gum resin containing drug. **05**  
(c) Describe general morphological and microscopical characters of umbelliferous fruits. **05**
- Q.4** (a) Write a note on botanical source, chemical constituents and uses of followings; **06**  
i) Myrrh ii) Turmeric  
(b) Define and classify resins with suitable examples. **05**  
(c) How can one differentiate cinnamon bark from cassia bark? **05**
- Q.5** (a) Differentiate the followings; **06**  
i) Indian dill and European dill  
ii) Volatile oil and Fixed oil  
(b) Enumerate various methods for extraction of volatile oils and explain any one of them. **05**  
(c) Write a note on synonyms, botanical source, chemical constituents and uses of drug containing valepotriates. **05**
- Q. 6** (a) Describe pharmacognosy of ginger. **06**  
(b) Write a note on botanical source, morphology, chemical constituents and uses of eucalyptus. **05**  
(c) Describe chemical constituents and adulterants of clove. **05**
- Q.7** (a) Write a note on botanical source, chemical constituents, and uses of followings; **06**  
i) Fennel ii) Tulsi  
(b) Draw and describe transverse section of coriander fruit. **05**  
(c) Write a note on physicochemical properties of volatile oils. **05**

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