

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

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

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-III Regular / Remedial Examination Dec. 2010

Subject code: 230006

Subject Name: Pharmacognosy-II

Date: 20 / 12 / 2010

Time: 10.30 am – 01.30 pm

### Instructions:

Total Marks: 80

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define Terpenes. Classify it with suitable examples. **06**  
(b) Describe Physical and chemical properties of volatile oil. **05**  
(c) Describe method for isolation of Eucalyptus oil and rose oil from petals. **05**
- Q.2** (a) Differentiate the followings : **(Any Three)** **06**  
(1) Volatile oil/Fixed oil  
(2) Sweet Fennel/ Bitter Fennel  
(3) Resin/Rosin  
(4) Peppermint oil/Mentha oil  
(b) How can you differentiate Cinnamon bark from Cassia bark ? **05**  
(c) How can you differentiate Indian Dill from European Dill ? **05**
- Q.3** (a) Discuss the importance of microscopy in standardization of herbal drug **06**  
(b) Describe general morphological and microscopical characters for identification of umbelliferous fruits. **05**  
(c) Draw diagrammatic transverse section of Fennel fruit with proper label. **05**
- Q.4** (a) Write a short note on Himalayan may-apple **06**  
(b) Define Pharmaceutical aids. Classify them with suitable examples. **05**  
(c) Describe botanical source, family, chemical constituents and uses of Turmeric. **05**
- Q.5** (a) Comment on followings: **(Any three)** **06**  
(1) Purgatives are given along with final dose of worm seed oil.  
(2) Lemon grass oil is very good source for production of Vitamin A  
(3) Etoposide is very good antidiabetic drug.  
(4) Cardamom seeds are kept in fruit till required for use.  
(b) Write a note on Botanical source, Family and adulterants of *Eugenia caryophyllus*. **05**  
(c) Write a note on source, chemical constituents, identification tests and adulterants of Asafoetida. **05**
- Q. 6** (a) Give specific tests for screening of steroids, alkaloids and saponins **06**  
(b) Enumerate different methods used for the isolation of phyto-constituents. **05**  
Describe any one of them by drawing suitable diagram.  
(c) What do you mean by marker compound? Explain the terms Extraction and Isolation of marker compounds **05**
- Q.7** (a) Define Tannin. Classify it with suitable examples and identification tests. **06**  
(b) Enlist the drugs used as Astringent medicinally. Describe the method for manufacturing of black catechu. **05**  
(c) Differentiate the term Khadir from Gambier. **05**

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