

**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.

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|-------------|-----|--------------------------------------------------------------------------------------------------------------|-----------|
| <b>Q.1</b>  | (a) | Describe cultivation, collection, active constituents and uses of cardamom.                                  | <b>06</b> |
|             | (b) | Differentiate siam benzoin and sumatra benzoin.                                                              | <b>05</b> |
|             | (c) | Describe botanical source, chemical constituents and uses of cannabis.                                       | <b>05</b> |
| <b>Q.2</b>  | (a) | Define tannins. Classify it with suitable examples and write their general chemical tests.                   | <b>06</b> |
|             | (b) | Write a note on botanical source, morphology, chemical constituents, and uses of myrobalan.                  | <b>05</b> |
|             | (c) | Differentiate black catechu and pale catechu.                                                                | <b>05</b> |
| <b>Q.3</b>  | (a) | Give detail pharmacognostic profile of nutmeg.                                                               | <b>06</b> |
|             | (b) | Write a note on any one oleo gum resin containing drug.                                                      | <b>05</b> |
|             | (c) | Describe general morphological and microscopical characters of umbelliferous fruits.                         | <b>05</b> |
| <b>Q.4</b>  | (a) | Write a note on botanical source, chemical constituents and uses of followings;<br>i) Myrrh ii) Turmeric     | <b>06</b> |
|             | (b) | Define and classify resins with suitable examples.                                                           | <b>05</b> |
|             | (c) | How can one differentiate cinnamon bark from cassia bark?                                                    | <b>05</b> |
| <b>Q.5</b>  | (a) | Differentiate the followings;<br>i) Indian dill and European dill<br>ii) Volatile oil and Fixed oil          | <b>06</b> |
|             | (b) | Enumerate various methods for extraction of volatile oils and explain any one of them.                       | <b>05</b> |
|             | (c) | Write a note on synonyms, botanical source, chemical constituents and uses of drug containing valepotriates. | <b>05</b> |
| <b>Q. 6</b> | (a) | Describe pharmacognosy of ginger.                                                                            | <b>06</b> |
|             | (b) | Write a note on botanical source, morphology, chemical constituents and uses of eucalyptus.                  | <b>05</b> |
|             | (c) | Describe chemical constituents and adulterants of clove.                                                     | <b>05</b> |
| <b>Q.7</b>  | (a) | Write a note on botanical source, chemical constituents, and uses of followings;<br>i) Fennel ii) Tulsi      | <b>06</b> |
|             | (b) | Draw and describe transverse section of coriander fruit.                                                     | <b>05</b> |
|             | (c) | Write a note on physicochemical properties of volatile oils.                                                 | <b>05</b> |

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