

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER –IV. EXAMINATION – SUMMER 2016

Subject Code:2240006**Date: 09/06/2016****Subject Name: Pharmacognosy-II****Time: 10:30 AM to 1:30 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) | Mention Biological source, Chemical constituents and uses of American & Indian Podophyllum resins. | 06 |
| | (b) | Write a pharmacognostic note on Asafoetida. | 05 |
| | (c) | Give Biological source, Microscopy and Chemical Constituents of Ginger. | 05 |
| Q.2 | (a) | Define Resins. Discuss types of resins with examples. | 06 |
| | (b) | Give distinguishing tests for Sumatra and Siam Benzoin. | 05 |
| | (c) | Give the B.S., chemical constituents and uses of Turmeric and Wavding. | 05 |
| Q.3 | (a) | Discuss in detail about chemical constituents and adulterants of clove | 06 |
| | (b) | Explain direct steam distillation method for isolation of volatile oil with merits and demerits. | 05 |
| | (c) | Describe the cultivation, collection and chemical constituents of Cardamom. | 05 |
| Q.4 | (a) | Give detail pharmacognostical profile of Nutmeg. | 06 |
| | (b) | Briefly describe the TS of Cinnamon with a neat and labeled Diagram | 05 |
| | (c) | Write Biological source, Chemical constituents and uses of Eucalyptus and fennel. | 05 |
| Q.5 | (a) | Differentiate following | 06 |
| | | 1. Indian dill and European dill | |
| | | 2. Chinese cinnamon and Ceylon cinnamon | |
| | (b) | Discuss in detail about Garlic. | 05 |
| | (c) | Write Botanical source, chemical constituents and uses of Holy Basil and Ajowan. | 05 |
| Q. 6 | (a) | What are valepotriates? Write a note on drug containing valepotriates. | 06 |
| | (b) | Comment on followings (Any two) | 05 |
| | | 1. Lemongrass oil is used for synthesis of vitamin A. | |
| | | 2. Clove is used as Dental analgesic | |
| | | 3. Etoposide is very good antidiabetic drug. | |
| | (c) | Write a pharmacognostic profile on <i>Crocus sativus</i> | 05 |
| Q.7 | (a) | Define tannins and Classify them with suitable examples and give its general chemical tests. | 06 |
| | (b) | Write a note on drugs belongs to combretaceae family. | 05 |
| | (c) | Differentiate between | 05 |
| | | 1. Hydrolysable tannin and non-hydrolysable tannin | |
| | | 2. Black catechu and pale catechu | |
