

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2014

Subject Code: 230006**Date: 16-06-2014****Subject Name: Pharmacognosy - II****Time: 02:30 pm - 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.

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| Q.1 | (a) Discuss the properties of tannin and give the differences between hydrolysable and condensed tannin. | 06 |
| | (b) Give the biological source, family, chemical constituents and method of preparation of Black catechu. | 05 |
| | (c) Write Botanical sources, Family, Chemical constituents, uses and different varieties of capsicum. | 05 |
| Q.2 | (a) Write Biological source, Chemical constituents and uses of following drugs.
1)Nutmeg 2)Mentha 3) Lemongrass | 06 |
| | (b) Give the differences between following.
1) Primary metabolites and secondary metabolites
2) Fixed oil and volatile oil | 05 |
| | (c) Write a note on Jalap. | 05 |
| Q.3 | (a) What are resins? Describe properties and classification of resins containing drugs. | 06 |
| | (b) Describe complete pharmacogony of eucalyptus | 05 |
| | (c) Write a short note on Ginger. | 05 |
| Q.4 | (a) Explain the different methods for extraction of volatile oil. | 06 |
| | (b) Discuss adulterants of clove. | 05 |
| | (c) Discuss morphology and microscopy of fennel fruit. | 05 |
| Q.5 | (a) Comment on following.
1) Asafoetida gives combined umbelliferone test
2) Pale catechu gives Gambier fluorescence test positive.
3) Coriander fruit contains four vittae. | 06 |
| | (b) Explain the different methods for preparation of extracts. | 05 |
| | (c) Explain the preliminary phytochemical screening of alkaloids, saponin, flavonoids and anthraquinone glycosides. | 05 |
| Q. 6 | (a) Give the differences between following.
1) Chinese cinnamon and Ceylon cinnamon
2) Cardenolide and bufadienolide | 06 |
| | (b) Write short notes on anticancer drugs. | 05 |
| | (c) What are surgical fibers? Classify it giving suitable examples. Describe preparation & chemical identification of Silk. | 05 |
| Q.7 | (a) Define Pharmaceutical Aids. Enumerate various applications of Pharmaceutical aids with suitable examples. | 06 |
| | (b) Write in brief on Natural colours. | 05 |
| | (c) Write Chemical tests and therapeutic uses of Gelatin. | 05 |
