

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph.– SEMESTER-III • EXAMINATION – SUMMER -2024

Subject Code: 230006**Date: 15/06/2024****Subject Name: PHARMACOGNOSY-II****Time: 02:30pm to 05:30pm****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) Comment on followings: (Any three)
(i) Black catechu gives Gambier fluorescence test.
(ii) Purgatives are given along with final dose of worm seed oil.
(iii) Etoposide is very good anti-diabetic drug.
(iv) Cardamom seeds are kept in fruit till required for use. | 06 |
| | (b) Write a note on Botanical source, family and adulterants of Eugenol containing volatile oil. | 05 |
| | (c) Discuss various isolation methods of Volatile oils from crude drugs. | 05 |
| Q.2 | (a) Differentiate the followings: (Any three)
(i) Cardenolide and Bufadienolide (ii) Cinnamon bark and Cassia bark
(iii) Indian Dill and European Dill (iv) Volatile oil and Fixed oil | 06 |
| | (b) Discuss general morphological and microscopical characters for identification of umbelliferous fruits. | 05 |
| | (c) Write a detailed pharmacognostic note on Mentha. | 05 |
| Q.3 | (a) What is Tannin? Classify tannins with suitable examples. | 06 |
| | (b) Elaborate methods of preparation of black catechu and pale catechu. | 05 |
| | (c) How can we differentiate Hydrolysable and Condensed tannin? | 05 |
| Q.4 | (a) Define Resin. Give the classification and isolation of the resin. | 06 |
| | (b) Write biological source, chemical constituents and uses of Podophyllum and Valerian. | 05 |
| | (c) Write biological source, chemical constituents, identification tests and adulterants of Devil's Dung. | 05 |
| Q.5 | (a) Define pharmaceutical aids. Give common names of the crude drugs, used as pharmaceutical aids along with their biological sources. | 06 |
| | (b) Write a short note on absorbent cotton. | 05 |
| | (c) Write biological source, chemical tests and uses of Gelatin and Silk. | 05 |
| Q.6 | (a) Write qualitative phytochemical tests of Anthraquinone glycosides, Cyanogenic glycosides and Alkaloids. | 06 |
| | (b) Draw a well labeled diagram of transverse section of Cinnamon bark. | 05 |
| | (c) Discuss phytochemical screening of Flavanoids and Amino acids. | 05 |
| Q.7 | (a) Write the following chemical tests:
(i) Gold beater's skin test (ii) Combined umbelliferone test (iii) Match stick test | 06 |
| | (b) Write a note on Natural colours. | 05 |
| | (c) Enlist various methods of extraction and discuss any one in brief. | 05 |