

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – III • EXAMINATION – SUMMER 2013**

**Subject Code: 230006****Date: 15-06-2013****Subject Name: Pharmacognosy - II****Time: 10.30 am - 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.

- Q.1** (a) Define pharmaceutical aids. Discuss its importance in pharmacy with suitable examples. **06**  
(b) Write a short note on natural colours. **05**  
(c) Write biological source, method of preparation and uses of talc and gelatin. **05**
- Q.2** (a) Define surgical fibres. Classify them with suitable examples. How will you differentiate wool and silk by chemical tests? **06**  
(b) Write a note on Absorbent cotton. **05**  
(c) Discuss general characteristics of Umbelliferous fruits with examples. **05**
- Q.3** (a) Differentiate between the followings **06**  
(1) Hydrolysable tannins v/s Condensed tannins  
(2) Volatile oil v/s Fixed oil  
(b) Enumerate different methods used for the isolation of volatile oils and discuss any two methods in detail. **05**  
(c) Draw well labeled diagram of TS of Clove. **05**
- Q.4** (a) Give detail pharmacognostical profile of Nutmeg. **06**  
(b) Give the classification of terpenoids. Write biological source, chemical constituents and uses of sandalwood oil. **05**  
(c) Write chemical constituents of cinnamon. Differentiate between Chinese cinnamon and Ceylon cinnamon. **05**
- Q.5** (a) Define tannins. Give its classification and general chemical tests. **06**  
(b) Write in detail about Black catechu. **05**  
(c) Differentiate between cardenolides and bufadenolides. **05**
- Q.6** (a) Enlist different classes of secondary metabolites. Give chemical tests for polyphenols and anthraquinones. **06**  
(b) Write note on different types of extracts. **05**  
(c) Give details about following chemical tests **05**  
(1) Kedde's test  
(2) Match stick test
- Q.7** (a) Define and classify resin with suitable examples. Give its general isolation method. **06**  
(b) Give detail pharmacognosy of Jalap. **05**  
(c) Write biological source, family, chemical constituents and uses of turmeric. **05**

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