

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER – 4- EXAMINATION – WINTER - 2018****Subject Code: 2240006****Date: 14/12/2018****Subject Name: Pharmacognosy-II****Time: 02:30 PM TO 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.**

- Q.1** (a) Name various methods used for isolation of volatile oil. Describe steam distillation method with suitable diagram. **06**  
(b) Give an account of physical properties & chemistry of essential oils. **05**  
(c) Give pharmacognostical profile of Behda. **05**
- Q.2** (a) Explain difference between hydrolysable tannins & condensed tannins. **06**  
(b) Write common name, biological source, and family, draw well labeled transverse section of coriander fruits. **05**  
(c) Describe biological source, family & collection of asafoetida. **05**
- Q.3** (a) Differentiate between sumatra benzoin & siam benzoin. **06**  
(b) Give biological source, chemical constituents & uses of Ginger & Turmeric. **05**  
(c) Write a note on cannabis product. **05**
- Q.4** (a) Enumerate all difference between Indian podophyllum & American podophyllum. **06**  
(b) Define & classify resin with suitable example. **05**  
(c) Write chemical test used for identification of tannins. Describe gambier fluorescein test with its principle. **05**
- Q.5** (a) Give biological source, family, chemical constituents & uses of two drugs which belong to umbelliferae family. **06**  
(b) Give biological source, chemical constituents & uses of clove & eucalyptus. **05**  
(c) Give biological source & chemical constituents of Amla & Ashoka. **05**
- Q.6** (a) Explain difference between two types of catechu. **06**  
(b) Define Tanning property. Describe general properties of tannins. **05**  
(c) Write biological source, chemical constituents & uses of Harde and Bael. **05**
- Q.7** (a) Give an account of physical properties & chemistry of resin. **06**  
(b) Give biological source & chemical constituents of drug used as anticancer & purgative. **05**  
(c) Write chemical structure of curcumin, zingiberol, coniferyl benzoate & abetic acid. **05**

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