

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**B. Pharmacy Sem-III Examination December 2009**

**Subject code: 230006**

**Subject Name: Pharmacognosy II**

**Date: 29 / 12 / 2009**

**Time: 12.00 – 3.00pm**

**Instructions:**

**Total Marks: 80**

1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

- Q.1** (a) Mention Biological source and Chemical constituents of American & Indian Podophyllum resins. **06**  
(b) Comment on quality of various species of Podophyllum and relationship between their chemical constituents & anti- mitotic activity. **05**  
(c) Explain in brief Convolvulaceous resins. **05**
- Q.2** (a) What are resins? Describe properties and classification of resins containing drugs. **06**  
(b) Give Biological source, Microscopy and Chemical Constituents of Ginger. **05**  
(c) Write possible difference between Hydrolysable tannins and condensed tannins. **05**
- Q.3** (a) Enumerate methods of production of volatile oils illustrating suitable examples. Describe any one of them. **06**  
(b) Draw well labeled sketch of Morphology and Microscopy (T.S.) of Coriander fruit. **Or** Cassia bark **05**  
(c) Write a detailed Pharmacognostic note on Volatile oil containing drug used as dental analgesic. **05**
- Q.4** (a) Enlist different class of phytoconstituents, elaborate preliminary phytochemical screening of alkaloids and saponins containing drugs. **06**  
(b) Explain working principle of Soxhlet's apparatus giving well labeled diagram. **05**  
(c) Write a note on Cardenolides and Bufadienolides. **05**
- Q.5** (a) Explain the term pharmaceutical aids. Enlist the common name, their sources & Family of crude drugs used as pharmaceutical aids. **06**  
(b) Write short notes on Gelatin. **05**  
(c) Describe the following chemical tests and state the crude drugs which give this test positive: **05**  
(i) Gold beater's skin test (ii) Combined umbelliferone test.
- Q. 6** (a) Comment on the following statements : **06**  
(i) Raw cotton forms balloons with Cuoxam test.  
(ii) Wool is keratin rich fiber.  
(iii) Black catechu gives Gambier fluorescence test.  
(b) What are surgical fibers? Classify them giving suitable examples. Describe preparation & chemical identification of Silk. **05**  
(c) Write in brief note on Absorbent cotton. **05**
- Q.7** Write Biological source, Chemical constituents and uses of following drugs **:(Any Two)**  
(a) Nutmeg or Valerian **06**  
(b) Turmeric or Cardamom **05**  
(c) Write in brief on Natural colours **05**

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