

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**
