

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

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

## GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Pharmacy First Year Examination May 2010

Subject code: 410003

Subject Name: Pharmacognosy

Date: 21 / 05 /2010

Time: 11.00 am – 02.00 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 Pharmacognosy. Discuss different methods of classification of crude drugs with merits and demerits. | <b>06</b> |
| (b) | Write note on general characters of Umbelliferous fruit.   | <b>04</b> |
| (c) | Write note on Glycosides.  | <b>04</b> |
| (d) | Write difference between pale catechu and black catechu.   | <b>02</b> |

**Q.2**

- |     |   |           |
|-----|---|-----------|
| (a) | Define and classify alkaloids. Discuss a method of isolation of alkaloids from crude drugs and write the tests for identification of alkaloids. | <b>10</b> |
| (b) | Write short note on pharmaceutical aids.  | <b>03</b> |
| (c) | Write short note on tannin.   | <b>03</b> |

**Q.3**

- Write B. S., Family, Chemical Constituents and uses of following drugs (**Any Eight**).
- |     |             |  |
|-----|-------------|--|
| (a) | Vinca       |  |
| (b) | Rhubarb     |  |
| (c) | Fennel      |  |
| (d) | Digitalis   |  |
| (e) | Ergot       |  |
| (f) | Glycyrrhiza |  |
| (g) | Clove       |  |
| (h) | Ginger      |  |
| (i) | Tulsi       |  |
| (j) | Rauwolfia   |  |

**Q.4**

- |     |  |                               |
|-----|--|-------------------------------|
| (a) | Describe the following chemical test and give name of crude drug which gives this test positive. ( <b>Any Four</b> ) . | <b>08</b>                     |
|     | i) Borntrager test   | ii) Grignard test             |
|     | iii) Killer-killani test   | iv) Vitali-morin test.        |
|     | v)Thalloequins test  | vi) Combined umbeliferon test |
| (b) | Write note on adulteration of clove  | <b>04</b>                     |
| (c) | Draw and label morphology of Senna leaf and Fennel fruit.  | <b>04</b>                     |

- Q.5** Write B. S., Family, Chemical Constituents and uses of following drugs **(Any Eight)**. **16**
- (a) Vasaka
  - (b) Amla
  - (c) Pyrethrum
  - (d) Nutmeg
  - (e) Nuxvomica
  - (f) Linseed
  - (g) Acacia
  - (h) Gokharu
  - (i) Neem
  - (j) Turmeric
- Q. 6** Write short note on following **(Any Four)** **16**
- (a) Sutures
  - (b) Resin
  - (c) Terpenoids
  - (d) Opium
  - (e) Physical evaluation method of crude drug.
- Q.7**
- (a) Write difference between following drugs **06**
    - i) Chhota Gokharu and Bada Gokharu
    - ii) Volatile oil and Fixed oil
    - iii) Indian dill and European dill
  - (b) Discuss Pharmacognosy of Datura leaf **06**
  - (c) Write B. S., Family, Chemical Constituents and uses of following drugs **(Any Two)** **04**
    - i) Coriander                      ii) Aswagandha                      iii) Cinchona

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