

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

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

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-II Examination June 2010

Subject code: 220005

Subject Name: Pharmacognosy-I

Date: 19 / 06 / 2010

Time: 02.30 pm – 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) Define the term Pharmacognosy; Write the scope & development of it. **06**
- (b) What is Morphology? Define root and add note on modifications of roots for storage. **05**
- (c) Define carbohydrates and add notes on Isabgul and Guar gum. **05**

**Q.2**

- (a) Define Crude drugs, classify them, and explain chemical classification with suitable example. **06**
- (b) Differentiate between monocot and dicot leaf, both morphologically and microscopically. **05**
- (c) Define placentation. Describe different types of it with suitable example. **05**

**Q.3**

- (a) Define alkaloids, classify them and write their pharmacological action. **06**
- (b) What are Trichomes? Write different types of trichomes and their function in plants. **05**
- (c) Write the factors influencing cultivation of medicinal plants. **05**

**Q.4**

- (a) Define the term tissue culture and write its importance in pharmacognosy. **06**
- (b) Write notes on meiosis and mitosis. **05**
- (c) Write short notes on: 1) Herbarium, 2) Fracture in bark. **05**

**Q.5**

- (a) What do you mean by active constituents? Explain with suitable examples. **06**
- (b) What are lipids? Classify them and give complete pharmacognosy of castor oil. **05**
- (c) Define terms with suitable examples for: 1) Breathing roots, 2) Stilt root, 3) Parasitic root, 4) Tap root. **05**

**Q. 6**

- (a) Define adulteration of crude drugs. Discuss different types of adulterants and its microscopic evaluations. **06**
- (b) What is fruit? Classify them with suitable examples. Write notes on fleshy fruits. **05**
- (c) What are stomata? Write types of stomata & its functions. **05**

**Q.7**

- (a) What are plant hormones? Add note on growth regulators and their applications. **06**
- (b) Explain the terms: 1) Polyploidy, 2) Mutation **05**
- (c) Write short note on: 1) Hybridization, 2) Monocot and Dicot Seed. **05**

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