Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharmacy Sem-II Examination June 2011

Subject code: 220005 Subject Name: Pharmacognosy-I
Date: 28/06/11 Total Marks: 80 Time: 10:30am-1:30pm

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Draw well labeled diagrams wherever necessary

Q.1. Attempt the following questions.

(A) Define the following terms (04)

a) Pharmacognosy b) Crude drugs c) Pharmaceutical aids

d) Alkaloids

(B) Give the sources of crude drugs with suitable examples. (06)

(C) Do you think that classification of crude drugs is necessary? If yes, justify your answer. Add a short note on pharmacological classification. (06)

Q.2. Solve the following questions.

(A) In morphology of leaf, which are the main diagnostic characters? (04)

(B) What is Modification? Describe underground modifications of stem. (06)

(C) Give the microscopic differences between dicotyledonous and monocotyledonous stem. (06)

Q.3. **Attempt the following questions**.

(A) What is cultivation? Discuss advantages of it. (04)

(B) Comment on types of soil. Which common fertilizers are used to maintain soil fertility? (06)

(C) What do you mean by mutation? Add a note on artificially induced mutation. (06)

Q.4. **Solve the following questions**.

(A) Answer any four of the following (04)

a) What is substitution? b) Define palisade ratio.

c) Give the functions of stomata. d) Define acid value.

e) Explain chemomicroscopy

(B) What is the meaning of sophistication? With suitable examples, explain types of adulterants. (06)

(C) Why it is essential to determine moisture content of crude drugs? Give any one method for it. (06)

OR

(C) Discuss in detail microscopic evaluation. (06)

Q.5. **Attempt the below questions**.

(A) What are carbohydrates? Discuss properties of them. (04)

(B) Give biological source, chemical constituents and uses of any two of the following. (06)

a) Acacia. b) Isabgol c) Agar

(C) What are the different sources of starch? Discuss microscopic characters to differentiate them (06)

Q.6. Solve the following questions.

(A) Define lipids. Give their general properties. (04)

(B) Give chemical test for fixed oils and fats. How will you detect sesame oil as an adulterant. (06)

(C) Give the biological source, chemical constituent and uses of any one fixed oil each from plant and marine source. (06)

Q.7. Attempt the following questions.

(A) What care should be observed during storage of crude drugs? (04)

(B) What do you mean by growth regulators? Write a short note on auxins. (06)

(C) Define glycosides. Enlist different modes of classification and discuss classification based on linkage between glycone and aglycone part of it. (06)