

GUJARAT TECHNOLOGICAL UNIVERSITY**B. Pharmacy Semester- IV Examination June 2010****Subject code: 240006****Subject Name: Pharmacognosy-III****Date: 19/06/2010****Time: 10.30 am – 01.30 pm****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) What are saponins? Enumerate any three drugs containing saponins.. **06**
Write suitable note on steroid saponins.
- (b) Describe with the help of neat diagram the different tissues as seen in T.S. of Licorice root. **05**
- (c) What is Gentian? Explain why Gentian roots are fermented before they are put to use. How is Gentian dried? **05**
- Q.2** (a) Define Digitalis I.P. Bring out all differences between *D. purpurea* and *D. lanata*. **06**
- (b) Describe the active constituents of a seed drug containing cardiac principle. **05**
- (c) Write a suitable pharmacognostic report on Ginseng. **05**
- Q.3** (a) Give a pharmacognostic note on Senna leaf. **06**
- (b) Name the different species of Rhubarb. Write a note on its nonanthracene groups of active constituents. What is the significance of Rhaponticin? **05**
- (c) Describe the chemical tests by which you can differentiate the commercial varieties of Aloes. **05**
- Q.4** (a) Define enzymes. Classify them giving suitable examples. Add a note on their significance. **06**
- (b) Give sources, method of preparation, properties and therapeutic importance of Papain OR Pepsin enzyme. **05**
- (c) Write a note on Diastase enzyme. **05**
- Q.5** (a) Enlist name of plant drugs classified under Bitter glycosides. Write active constituents, uses and adulterants of Picrorrhiza. **06**
- (b) What are Jamaican and Suriman Quassia ? How are these two differentiated? **05**
- (c) Draw neat and well labeled diagrams of Morphology & T.S. microscopy of Linseed. **05**
- Q.6** (a) Write exhaustive note on Isothiocyanate glycosides. **06**
- (b) Explain morphology of Almond OR Ruta. **05**
- (c) What are coumarins ? Mention their therapeutic applications. **05**
- Q.7** (a) Write method of cultivation and collection of Digitalis. **06**
- (b) Give brief description of *Ammi majus*. **05**
- (c) Name a drug used to cure Leucoderma. What are its constituents? **05**
