

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. Sem - IV Examination June- 2011

Subject code: 240006

Subject Name: Pharmacognosy-III

Date: 13/06/2011

Time: 10.30 am – 01.30 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) Give the differences between
(I) Indian Squill and European Squill **03**
(II) Chinese rhubarb and Rhapontic rhubarb **03**
 - (b) Give the B.S, chemical constituents and chemical test for a drug which possess photodynamic activity. **05**
 - (c) Give the B.S, chemical test and uses for a drug which contains the triterpenoid saponin glycoside moiety. **05**
- Q.2**
- (a) (I) Cassia angustifolia and cassia acutifolia are official in different Pharmacopoeias. **01**
(II) Sinigrin gets hydrolyzed into Allyl isothiocyanate. **01**
(III) Fermented gentian roots are more potent than unfermented roots. **01**
(IV) Dioscorea tubers are used as a precursor for the synthesis of steroids **01**
(V) In flavonoid compounds variation in the state of oxidation determines the properties and class. **01**
(VI) Liquorice also possesses bitter taste. **01**
 - (b) Differentiate the various sources of aloes by Klunge's isobarbaloin test. **05**
 - (c) Differentiate Cardenolide and Bufadienolide by its structure **05**
- Q.3**
- (a) Draw a neat labeled T.S of Linseed and give its Adulterants. **06**
 - (b) Draw a neat labeled T.S of Quassia wood. **05**
 - (c) Give the hydrolysis products of purpurea glycoside A and purpurea glycoside B **05**
- Q.4**
- (a) Write down only the method of preparations of Papain and Pepsin. **06**
 - (b) Write a short note on allied drugs of Senega. **05**
 - (c) Write a short note any one drug belonging to Carbolytic, proteolytic and lipolytic type enzymes from the syllabus. **05**
- Q.5**
- (a) Give the B.S, chemical constituents and uses of Sarsaparilla and chirata **06**
 - (b) Give the B.S, chemical constituents and uses of Cyanogenetic glycoside which is not included in your practical. **05**
 - (c) Differentiate the O-glycoside and C-glycoside by chemical test. **05**
- Q. 6**
- (a) Write a short note on Rutagraveolens **06**
 - (b) Write down the preparation of Barbados aloes **05**
 - (c) Give the B.S, G.S, Family, chemical constituents and uses of picrorrhiza. **05**
- Q.7**
- (a) Give the B.S, chemical constituents and uses of Cascara bark **06**
 - (b) Give the B.S, chemical constituents and uses of Kalmegh **05**
 - (c) SAR of Cardiac glycoside **05**
