

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-5 • EXAMINATION – SUMMER -2018

Subject Code: 2250006**Date: 25/05/2018****Subject Name: Pharmacognosy-III****Time: 02:30 PM TO 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) Comment on following sentences: **06**
 1. Cascara bark is stored at least one year before its use.
 2. Digoxin is more preferred to use than Digitoxin.
 3. Bitter glycoside containing drugs should be taken before meal.
- (b) What do you mean plant tissue culture (PTC)? Give the basic requirements **05**
 involve in the PTC & applications in Pharmacy.
- (c) Detailed note on Cyanogenic glycosides & give Pharmacognosy of Linseed. **05**
- Q.2** (a) Define & classify the glycosides with suitable example. Draw flow chart of **06**
 general method for isolation of Glycoside.
- (b) Discuss in detail about flavanoid glycosides & Pharmacognosy of *Ruta* **05**
graveolens.
- (c) What are the Saponin glycosides? Give short note on properties & classification **05**
 of saponins.
- Q.3** (a) Enlist various tests for identification of saponin glycoside & give **06**
 Pharmacognosy of “Sugar Destroyer” plant.
- (b) Differentiate: Chhota Gokhru & Bara Gokhru **05**
- (c) Write a detailed note on various type of culture used in Plant tissue culture. **05**
- Q.4** (a) Differentiate Between: **06**
 1. European Squill & Indian Squill
 2. Jalbrahmi & Mandukparni
- (b) Differentiate between: Cardienolides and Bufadienolides. **05**
- (c) What are Coumarin glycosides? Give biological source, family, chemical **05**
 constituents & therapeutical uses of drug known as Bavachi.
- Q.5** (a) Write pharmacognosy of Digitalis with their allied species. **06**
- (b) What is Carbenoxolone? Give its chemistry & therapeutical uses. **05**
- (c) Explain chemical tests: i) Modified Borntrager’s test (ii) Grignard’s test **05**
- Q. 6** (a) Give Biological source, family, active constituents, properties and uses of **06**
 Ginseng and Mustard.
- (b) Give Pharmacognosy of Gentian. **05**
- (c) Give the difference between *Strophanthus kombe* & *Strophanthus gratus* **05**
- Q.7** (a) Write a note on preparation of various species of Aloe. **06**
- (b) Give Biological source, family, chemical tests & uses of Keshudo & Bhilama. **05**
- (c) Give active constituents & therapeutic uses of Methi & Thevetia. **05**