

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**
