

Enrollment No./Seat No.:

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER - V EXAMINATION - WINTER 2025

Subject Code: 2250006

Date: 24-11-2025

Subject Name: Pharmacognosy-III

Time: 10:30 AM TO 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.**

	Marks
Q.1 (a) Define & classify the glycosides with suitable example. Explain general method for isolation of Glycoside.	06
(b) Explain in detail pharmacognosy of Senna.	05
(c) Write the Pharmacognosy of brain tonic drug included in your Syllabus.	05
Q.2 (a) What do you mean by saponins? Discuss in detail about properties and chemistry of saponins.	06
(b) Differentiate : Cardenolide and Bufadienolide with identification test and examples.	05
(c) Give pharmacognostical account on Ginseng.	05
Q.3 (a) What are different sources of Aloe? Explain their method of preparation.	06
(b) Enlist and explain the basic laboratory requirements of plant tissue culture.	05
(c) Write biological source, chemical constituents and uses of Almond and Squill.	05
Q.4 (a) Write in detail about nutritional requirements of plant tissue culture.	06
(b) Discuss in detail: Digitalis.	05
(c) Write Biological source, chemical constituents, uses and microscopic features of Linseed.	05
Q.5 (a) Write a detailed note on Glycyrrhiza glabra with its pharmacological actions.	06
(b) Write a note on flavanoids. Discuss Butea in detail.	05
(c) Write a detailed note on Callus culture.	05
Q.6 (a) What is plant tissue culture? Explain the need and applications of PTC in pharmacy.	06
(b) Write biological source, chemical constituents and uses of Dioscorea and Arjun.	05
(c) Write the Pharmacognosy of Antidiabetic drug included in your syllabus.	05
Q.7 (a) Differentiate: (i) Chhota gokhru and Bada gokhru (ii) Mustard and Black mustard.	06
(b) Write Biological Source, Chemical Constituents and uses of Gentian and Chirata.	05
(c) Write a note on Satavari and Methi.	05
