

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM - SEMESTER- 5 EXAMINATION – SUMMER-2024****Subject Code:2250006****Date: 17/05/2024****Subject Name: Pharmacognosy-III****Time: 02.30 p.m. to 5.30 p.m.****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)	Define Glycoside. Give sill's classification for glycosides with example.	06
	(b)	Discuss applications of Plant tissue culture.	05
	(c)	Draw detailed T.S of Shatavari root.	05
Q.2	(a)	Write a detail note on nutritional requirements in plant tissue culture.	06
	(b)	Differentiate between (i) Jalbrahmi and Mandukparni (ii) European squill and Indian squill.	05
	(c)	Give detailed note on cardiogenic drug from syllabus.	05
Q.3	(a)	Write a short note on Anthraquinone glycosides. Discuss mechanism of action for purgative activity.	06
	(b)	Write detail note on methods of preparation for aloe.	05
	(c)	Give pharmacognostical account on Ginseng.	05
Q.4	(a)	Comment on following. (I) Cascara bark is used after 1 year from collection. (II) Digitalis leaves are dried immediately after collection. (III)	06
	(b)	Write general methods of Isolation of Glycosides.	05
	(c)		05
Q.5	(a)	Give BS, CC and uses of (I) Ruta (II) Bhiringraj (III) Linseed	06
	(b)	Give Pharmacognostical account of Kalmegh and Methi.	05
	(c)	Explain Killer-Killiani and Modified Borntragers test.	05
Q. 6	(a)	Write a detailed note on suspension culture.	06
	(b)	Give B.S, family, CC and uses of Gymnema and Gentian.	05
	(c)	Give short note on Flavanoids. Discuss Palash in detail.	05
Q.7	(a)	Differentiate (i) Chhota gokhru and Bada gokhru (ii) Mustard and Black mustard.	06
	(b)	Write a note on Hairy root culture.	05
	(c)	Give B.S, CCand uses of Arjuna bark and Nerium.	05
