GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER - 5- EXAMINATION -WINTER - 2018

Subject Code:2250006 Date: 03/12/2 Subject Name: Pharmacognosy-III Time:10:30 AM TO 01:30 PM Total Marks Instructions:		t Code:2250006 Date: 03/12/2018	
		 Attempt any five questions. Make Suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Define Glycoside. Discuss its classification with appropriate examples. How glycoside can be isolated?	06
	(b)	What do you mean by saponins? Discuss in details about properties and chemistry of saponins.	05
	(c)	Write down complete pharmacognosy of one adaptogenic drug.	05
Q.2	(a)	Enlist saponins containing drugs included in your syllabus. Write detailed note on Satavari.	06
	(b)	Discuss the different sources of Liquorice with its morphology, chemical constituents and pharmacological actions.	05
	(c)	Write the Pharmacognosy of brain tonic drugs included in your Syllabus.	05
Q.3	(a) (b)	Define cardiac glycosides. Write a detail note on Digitalis. Give the difference between Cardenolide & bufadienolide. Write note any one bufadienolide containing drug.	06 05
	(c)	Differentiate between <i>Strophanthus kombe</i> and <i>Strophanthus gratus</i> .	05
Q.4	(a)	Explain chemical tests for followings: (Any Three) (i) Digitoxose (ii) Sterols (iii) Aloe-emodin (iv) Hydrocyanic acid	06
	(b)	Discuss the distinguishing Morphological, Microscopical & chemical feature of different varieties of Senna.	05
	(c)	What are different sources of Aloe? Explain their morphology & method of preparation.	05
Q.5	(a) (b) (c)	Define plant tissue culture. Discuss its applications, advantages and disadvantages. Discuss in detail composition of nutrient media in plant tissue culture technique. Explain various type of cultures used in Plant tissue culture technique with its uses.	06 05 05
Q. 6	(a)	Define bitter glycosides. Compare the morphology, microscopy and uses of Chirata stem and Kalmegh stem.	06
	(b) (c)	Write B.S., Family, Chemical constituents and uses of Gentian and Black Mustard. Draw and discuss the ideal design of Plant tissue culture Lab with basic facility.	05 05
Q.7	(a)	Write down Biological source, morphology, chemical constituents and uses of Linseed and Palash.	06
	(b) (c)	Write a note on Psoralea and Bhangro. Explain the pharmacognosy of drug known as Indian Madder.	05 05
