GUJARAT TECHNOLOGICAL UNIVERSITY			
•		B.PHARM – SEMESTER – V • EXAMINATION – WINTER – 2015 Code: 2250006 Date: 21/12/2015 Name: Pharmacognosy - III	
Time: 10.30 AM to 1.30 PM Instructions: 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			
Q.1	(a) (b) (c)	Define plant tissue culture. Discuss it's applications. Enumerate and discuss requirements of nutrient media in plant tissue culture technique. Give pharmacognostic note on Kesudo.	06 05 05
Q.2	(a) (b) (c)	What are different sources of Aloe? Explain their method of preparation. Give Sill's classification of glycosides citing suitable examples. Differentiate between (i) Chota gokhru and Bada gokhru (ii) Jalbrahmi and Madukparni.	06 05 05
Q.3	(a) (b) (c)	Explain following chemical tests: (i) Modified Borntrager's test (ii) Grignard's test (iii) Libermann's test. Write pharmacgonostic note on <i>Ginseng</i> . Draw a well labeled morphological and microscopical diagram (T.S.) of linseed.	06 05 05
Q.4	(a) (b) (c)	Define cardiac glycosides. Write a detail pharmacognosy of purple foxglove. Differentiate between cardienolides and bufadienolides. Describe complete pharmacognosy of <i>Gymnema</i> .	06 05 05
Q.5	(a) (b) (c)	Enlist saponins containing drugs included in your syllabus. Write notes on Satavari. Give detail note on pharmacognosy on Senna Comment on the following statements (i) <i>Cassia fistula</i> is used as mild laxative in infants. (ii) <i>Cascara</i> bark is used after one year of it's storage. (iii) Senna pods are preferred for isolation of sennosides.	06 05 05
Q. 6	(a) (b) (c)	Write common name, biological source, family, chemical constituents and uses of Liqurice. Discuss pharmacognosy of <i>Picrorrhiza</i> . Differentiate between Chinese rhubarb and Indian rhubarb.	06 05 05
Q.7	(a)	Discuss hairy root culture and protoplast culture.	06

Enrolment No.____

05

05

Seat No.: _____

Differentiate between Strophanthus kombe and Strophanthus gratus.

Write a note on coumarin glycosides

(b)

(c)