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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 5 EXAMINATION - SUMMER -2019

Subject Code: 2250006 Date: 10-06-2019

Subject Name: Pharmacognosy-III

Time: 02:30 PM TO 05:30 PM Total Marks: 80

Instructions:

1. Attempt any five questions.

culture.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

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Q.1	(a) (b) (c)	Explain principle of plant tissue culture and discuss its application. Draw well labeled microscopical diagram of Liquorice. Write in detail methods of preparation of an unorganized drug containing anthraquinone glycoside.	06 05 05
Q.2	(a) (b) (c)	Explain following chemical tests: (i) Modified Borntrager's test (ii) Grignard's test (iii) Shinoda test. Write pharmacognosy of man root. Explain detailed histology of Satavari.	06 05 05
Q.3	(b) (c)	Give the difference between following drugs. 1. Jal Brahmi and Mandukparni 2. Chhota Gokhru and Bada Gokhru Write short note on isothiocyanate glycosides. Discuss pharmacognosy of Digitalis.	05 05 05
Q.4	(a) (b) (c)	Explain in detail saponin glycoside containing antidiabetic drugs. Define coumarins. Write biological source, morphological characteristic, chemical constituents and uses of Linseed. Write pharmacognosy of Butea.	06 05 05
Q.5	(a) (b) (c)	Explain in detail chemistry of cardiac glycoside and write its chemical test. Differentiate following: 1. Lal Karen and Pili Karen 2. Alexandrian senna and Tinnevelly senna Draw well labeled microscopical diagram of chirata.	06 05 05
Q. 6	(a) (b) (c)	Explain in detail nutritional requirement of plant tissue culture. Enumerate bitter glycoside containing drugs and explain anyone in detail. Write a note on protoplast culture.	06 05 05
Q.7	(a) (b)	Define Glycoside, explain its physicochemical properties and classify them with appropriate examples. Write biological source, chemical constituents and uses of Psoralea and Bhangro.	06 05
	(c)	Define plant tissue culture. Discuss laboratory requirement for plant tissue	05
