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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 3 EXAMINATION - SUMMER -2019

Subject Code: BP305TP	Date: 07-06-2019

Subject Name: Pharmacognosy and Phytochemistry I

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

Instructions:

- 1. Attempt any five questions.
- Make suitable assumptions wherever necessary.
 Figures to the right indicate full marks.

3.	rigui	res to the right mulcate run marks.	
Q.1	(a) (b)	Define Pharmacognosy. Discuss its scope and development in brief. "Physicochemical evaluation is extremely important for quality control of crude drugs" Justify.	06 05
	(c)	Discuss the sexual and asexual methods of vegetative propagation in brief.	05
Q.2	(a)	What is evaluation of the crude drugs? Explain quantitative microscopic evaluation of the crude drugs.	06
	(b)	How can you classify the crude drugs? Give a short note on Chemical and Taxonomical type of classification.	05
	(c)	Define adulteration of crude drug? Discuss unintentional adulteration of crude drugs.	05
Q.3	(a) (b)	Explain - "Plant tissue culture is fundamental concept of Pharmacognosy". Enlist various plant tissue culture techniques. Discuss Micropropogation and somatic hybridization in very brief.	06 05
	(c)	Give a note on composition of nutrient media in plant tissue culture.	05
Q.4	(a) (b) (c)	Elaborate the fundamental principles of Homeopathic system of medicine. Discuss the <i>Tridoshas</i> as basic principles of Ayurvedic system of medicine. Discuss plant hormones and their applications in plant growth and development.	06 05 05
Q.5	(a)	Define secondary metabolite? Give classification, properties and identification tests of Alkaloids.	06
	(b)	Classify Glycosides as secondary metabolites. Write any two qualitative phytochemical tests of them.	05
	(c)	Write the following chemical tests: (i) Gold beater's skin test (ii) Modified Borntrager's test (iii) Match stick test	05
Q. 6	(a)	Define pharmaceutical aids. Discuss Gelatin and Papain as pharmaceutical aids in brief.	06
	(b)	Write biological source, chemical constituents and uses of the following: (i) Agar (ii) Tragacanth (iii) Guar gum	05
	(c)	Write a note on Natural allergens.	05
Q.7	(a) (b)	Give a brief report on factors affecting cultivation of medicinal plants. Write biological source, chemical constituents and identification tests of Castor oil and Bees wax.	06 05
	(c)	Describe the novel medicinal agents obtained from marine sources.	05
