GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER–3 EXAMINATION – WINTER -2024

Subject Code: BP305TP   **Date: 30-12-2024**

Subject Name: Pharmacognosy and Phytochemistry I

Time:10.30 AM TO 01.30 PM   **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)**	Enlist various system of Medicine. Discuss the role of Pharmacognosy in Indian system of Medicine.	**06**
	(b)	Explain the objective and Principles of Ayurvedic system of medicine.	**05**
	(c)	Define Glycosides. Classify it and give its chemical properties.	**05**
Q.2	**(a)**	Write details about the factors affecting the cultivation, collection and processing of crud drug	**06**
	(b)	Describe the methods of cultivation of medicinal plants.	**05**
	(c)	Explain plant growth regulators in details.	**05**
Q.3	**(a)**	What is the evaluation of crude drug? Explain in details about the various methods of evaluation.	**06**
	(b)	Enlist various methods of Classification of crude drug. Write a note on Chemical classification of crude drugs.	**05**
	(c)	Write a note on methods of adulteration of plant material with suitable examples.	**05**
Q.4	**(a)**	What is plant tissue culture? Discuss the application of Plant tissue culture in Pharmacognosy.	**06**
	(b)	Explain in details about various types of tissue culture technique.	**05**
	(c)	What is the nutritional requirement for plant tissue culture?	**05**
Q.5	**(a)**	What are teratogenic drugs? Explain in detail.	**06**
	(b)	Give a detailed note on Natural allergens.	**05**
	(c)	Explain polyploidy. Discuss its role in cultivation of medicinal plants.	**05**
Q. 6	**(a)**	What are enzymes? Classify enzymes and write a detailed note on any one.	**06**
	(b)	Define and classify the alkaloids. Give its chemical tests.	**05**
	(c)	Write a note on plant fibers.	**05**
Q.7	**(a)**	Define Pharmacognosy. Discuss the scope and development of Pharmacognosy.	**06**
	(b)	Give a descriptions of novel medicinal agent obtained from marine sources.	**05**
	(c)	Write complete Pharmacognosy of Wool fat and Hemp.	**05**

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