GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. - SEMESTER- III • EXAMINATION – WINTER -2023

•	Subject Code: BP305TPDate: 20/01/2024Subject Name: Pharmacognosy and Phytochemistry I		
Time Instru 1. 2.	e: 10 ictions Atte Mal	:30 AM TO 1:30 PM Total Marks: 80	
Q.1	(a) (b) (c)	Write a note on sources of drugs giving examples in each class. Differentiate between organized and unorganized drugs. Write a brief note on scope and development of pharmacognosy.	06 05 05
Q.2	(a) (b) (c)	Define adulteration. Write the various methods used for adulteration of crude drugs. Write a detailed note on physical method of evaluation of crude drugs. Explain quantitative microscopy. Write a detailed note on lycopodium spore method.	06 05 05
Q.3	(a) (b) (c)	Enumerate plant hormones. Discuss the role of cytokinin and auxin in plants. What is the meaning of conservation of plants? What are the techniques used for conservation? Write a note on edible vaccines.	06 05 05
Q.4	(a) (b) (c)	 Write a note on concept of treatment in Unani system of medicine. Explain the role of Pharmacognosy in allopathy medicine. Describe the following chemical tests: i) Vitali-morin test ii) Matchstick test iii) Shinoda test iv) Umbelliferone test 	06 05 05
Q.5	(a) (b) (c)	Define alkaloids. Classify according to the chemical nature of alkaloids with example in each class. What are the basic requirements for starting a tissue culture laboratory? Explain in brief the necessity of each requirement. Write a note on growth and maintenance of plant tissue culture.	06 05 05
Q. 6	(a) (b) (c)	 Write the biological source, uses and chemical constituents of: i) Cotton ii) Agar iii) Castor oil Define pharmaceutical aids. Classify them and write a note on suspending agents. Define enzymes. Classify with examples. Write the biological source of bromalein. 	06 05 05
Q.7	(a) (b) (c)	Enumerate factors affecting cultivation of medicinal plants. Write a note on soil fertility. Define glycosides. Classify with examples in each class. Write a note on novel medicinal agents from marine source having anticancer activity.	06 05 05