Seat No.: Enr	olment No.
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Subject Code: BP501TT

Subject Name: Medicinal Chemistry II

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER- V-EXAMINATION - SUMMER -2022

Date: 15/06/2022

Instru 1. 2.	ctions Atte Mal	:30pm to 05:30pm Total Marks: 80 empt any five questions. ke suitable assumptions wherever necessary. ares to the right indicate full marks.	
Q.1	(a) (b)	Write a short note on H ₂ receptor antagonist. Discuss in detail about gastric proton pump inhibitors along with its mechanism of action.	06 05
	(c)	Classify H_1 -receptor antagonist. Write the structure, IUPAC nomenclature and use of one drug from each category.	05
Q.2	(a)	Write chemical structure, mechanism of action and therapeutic use of any three drugs from anti-cancer alkylating agents.	06
	(b) (c)	Describe drugs used for erectile dysfunction. Write the chemical structure and use of following drugs: (i) Cromolyn sodium (ii) Cetirizine (iii) Thiotepa (iv) Cyclophosphamide (v) Diethyl stilbesterol	05 05
Q.3	(a) (b) (c)	Classify anti-hypertensive agents with suitable examples. Write a short note on oral anticoagulants. Give synthetic scheme and use of (i) Acetazolamide (ii) Warfarin	06 05 05
Q.4	(a) (b) (c)	Classify corticosteroids with relevant examples. Give chemical structures of any three drugs from each category. Describe chemistry of cardiac glycosides. Write the chemical structure and IUPAC nomenclature of following drugs: (i) Tolbutamide (ii) Phenytoin Sodium (iii) Benzocaine (iv) Furosemide (v) Ethacrynic acid	06 05 05
Q.5	(a)	What is Diabetes Mellitus? Write chemical classification of oral hypoglycemic agents with suitable examples and two structures from each class.	06
	(b) (c)	Define and classify anti-arrythmic agents and explain mode of action of each class. Write a short note on anti-hyperlipidemic agents.	05 05
Q. 6	(a)	Classify anti-anginal agents. Describe the mechanism of action and use of nitrates.	06
	(b)	Write the chemical structure and use of following drugs: (i) Methyl Dopa (ii) Mannitol (iii) Captopril (iv) Metformin (v) Nitroglycerin	05
((c)	Give synthetic scheme of following drugs: (i) Diphenhydramine hydrochloride (ii) Methotrexate	05
Q.7	(a) (b) (c)	What are diuretics? Classify diuretics with suitable examples. Write an informative note on antithyroid drugs. Outline the SAR of local anesthetics.	06 05 05
