GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER-6 EXAMINATION – WINTER -2023

Subject Code: BP601TPDate: 02/12/2Subject Name: Medicinal Chemistry IIITime: 02.30 p.m. to 5.30 p.m.Time: 02.30 p.m. to 5.30 p.m.Total MarkInstructions:1. Attempt any five questions.1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			12/2023
			larks: 80
Q.1	(a)	 Explain the following terms with suitable examples: i) Prodrug ii) Docking iii) Pharmacophore Modeling 	06
	(b) (c)	Classify anthelmintic agents. Give synthesis of Diethylcarbamazine citrate Write short note on macrolide antibiotics.	. 05 05
Q.2	(a) (b) (c)	What are anti-tubercular agents? Briefly explain anti-tubercular antibiotics Give SAR of Sulphonamides. Write detailed note on anti-retroviral agents.	. 06 05 05
Q.3	(a) (b) (c)	 Write short note on Penicillin. Discuss about β-lactamase inhibitors. Classify anti-malarial agents. Write synthetic scheme with IUPAC nomenclature of following drugs: i) Isoniazid ii) Sulphamethoxazole 	06 05 05
Q.4	(a) (b) (c)	Classify sulphonamides. Give synthesis of Sulphacetamide. Write short note on Tetracyclines. Explain SAR of Fluoroquinolones.	06 05 05
Q.5	(a) (b) (c)	 Explain the following: i) Lipinski's rule of 5 ii) Hansch analysis Write short note on anti-fungal antibiotics. Write a brief note on quinolines as antimalarial agents. 	06 05 05
Q. 6	(a) (b) (c)	Explain various physico-chemical parameters used in QSAR. Write an informative note on anti-amoebic agents. Explain mechanism of action, use and side effects of Cephalosporins.	06 05 05
Q.7	(a) (b) (c)	 Explain concept and applications of combinatorial chemistry. Write short note on Aminoglycosides. Draw the structure and give use of following drugs: i) Nalidixic acid ii) Chloramphenicol iii) Para amino salicylic acid (PAS) iv) Mebendazole 	06 05 05

v) Metronidazole
