Seat No.: Enr	olment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. – SEMESTER VI – EXAMINATION – WINTER -2020

•		Code: BP601TP Date: 02/01/2021 Name: Medicinal Chemistry III	
•	: 02	:00PM TO 04:00PM Total Marks: 54	
	Q.7 Mak	empt any THREE questions from Q-1 to Q-6. is compulsory to attempt. se suitable assumptions wherever necessary. ares to the right indicate full marks.	
Q.1	(a) (b) (c)	Classify cephalosporin. Write a note on monobactam. Define and classify prodrug with suitable examples. What is QSAR? Write a note on Hansch analysis.	06 05 05
Q.2	(a)(b)(c)	What is combinatorial chemistry? Explain different methodologies used for synthesis. Classify sulphonamides based on chemical structures. Outline synthesis of sulphamethoxazole. Explain SAR of Sulphonamides.	06 05 05
Q.3	(a) (b) (c)	Classify antitubercular agent. Give synthesis of Isoniazid. Write short notes on computer aided drug design. Describe SAR of quinolines. Explain mechanism of chloroquine.	06 05 05
Q.4	(a) (b) (c)	 i. Life cycle of malarial parasite ii. Macrolide antibiotic Write a note on applications of prodrug. Write IUPAC name and synthesis of the following drugs: (i) Miconazole (ii) Mebendazole 	06 05 05
Q.5	(a) (b) (c)	Give brief note on antiviral agents. Write the chemical degradation of penicillin with structures. Explain SAR of quinolones as antibacterial agent.	06 05 05
Q. 6	(a)(b)(c)	Classify and explain mechanism of action of azole antifungal agents. Draw structure of one drug from each class of it. Write uses and synthesis of the following drugs: (i) Ciprofloxacin (ii) Acyclovir Draw general structure of tetracycline antibiotics. Explain mechanism of action and side effects of it.	06 05 05
Q.7	(a)	 i. What is tissue amoebicide and luminal amoebicid? Give examples. ii. Outline the synthesis of metronidazole. iii. What is anthelmintic? Explain mechanism of benzimidazole as anthelmintic. OR	06
	(a)	Write a short note on aminoglycoside antibiotics. OR	06
	(a)	Give IUPAC name and synthesis of the following drugs: (i) Chloroquine (ii) Chloramphenicol	06
