## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.PHARM - SEMESTER- VI • EXAMINATION – WINTER -2022

Subject Code: BP601TPDate: 04/01/Subject Name: Medicinal Chemistry IIITime: 02:30pm to 05:30pmTime: 02:30pm to 05:30pmTotal MarkInstructions:1. Attempt any five questions.				
Q.1	(a)	Write down chemical degradation $\beta$ -Lactam antibiotics. Discuss about $\beta$ -lactamase inhibitors.	06	
	(b) (c)	Write down synthesis of Trimethoprim & Dapsone. Write down SAR of Quinolones in details.	05 05	
Q.2	(a) (b) (c)	Write about etiology of malaria. Discuss classification of anti-malarial agents. Discuss SAR of Tetracycline. Explain about Pharmacophore modeling.	06 05 05	
Q.3	(a) (b) (c)	Define Prodrug. Discuss basic concepts and application of Prodrugs. Write a note on antiviral agents in details. Explain MDR-TB. Write a note on first-line anti tubercular agents.	06 05 05	
Q.4	(a) (b) (c)	Write down classification and SAR of Sulfonamides. Write about mode of action, therapeutic uses and synthesis of Chloramphenicol. Write a note on anti-protozoal agents.	06 05 05	
Q.5	(c) (a) (b)	Write a note on and protozoal agents. Write down classification, mode of action and therapeutic uses of Aminoglycosides. What is QSAR? Write about Hansch analysis in QSAR.	05 06 05	
	(c)	Write down synthesis of Chloroquine & Pamaquine.	05	
Q. 6	(a)	Explain in brief about azoles as antifungal agents. Give the synthesis of Miconazole.	06	
	(b) (c)	Discuss various approaches used in drug design. Explain about XDR TB. Write down synthesis of Isoniazid.	05 05	
Q.7	<b>(a)</b>	Define combinatorial chemistry. Discuss concept and applications of combinatorial chemistry.	06	
	(b)	Write down classification of Anthelmintic agents. Write down synthesis of Mebendazole.	05	
	(c)	Write down SAR of Macrolide.	05	

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