GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm – SEMESTER VI– • EXAMINATION – SUMMER -2021

Subject Code:BP601TP Date:03/08			2021	
Time Instru 1. 2.	: 02:3 Iction Atte Mal	Name: Medicinal Chemistry III 50PM TO 05:30 PM Total Marks: 80 5: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a)	 Do as directed I. Comment – Tetracyclines are contraindicated with milk. II. Comment: Cephalosporins are more resistant towards β-lactamase enzyme than penicillin in general. III. How the problem of crystalluria is avoided while using sulpha drug as chemotherapeutic agent. 	06	
	(b) (c)	Define and classify sulfonamides with structural examples.Give structure of following drugs.i) Chlortetracyclineii) Azithromyciniii) Artemetheriv) Griseofulvinv) Norfloxacin	05 05	
Q.2	(a) (b) (c)	Define and classify Penicillines and Tetracyclines with its mechanism of action. Give synthesis of Pamaquine and Nitrofurantoin. Give name and structure of any five drug containing imidazole ring system.	06 05 05	
Q.3	(a) (b) (c)	Define and classify anti-tubercular agents with synthesis of any one drug. Give brief note on SAR of sulfonamides with structural examples. Define and classify antiviral agents with structural examples of any five drugs.	06 05 05	
Q.4	(a) (b) (c)	Define and classify Macrolides and Chloramphenicol with its mechanism of action. Give brief note on SAR of Quinolones with structural examples. Give brief note on MDR TB, XDR TB and TDR TB.	06 05 05	
Q.5	(a) (b) (c)	Define drug design. Give brief note on physicochemical parameters used in QSAR. Give synthesis of Chloramphenicol and Chloroquine. Define Prodrug and application of prodrug design. Give name and structure of any three prodrug.	06 05 05	
Q. 6	(a) (b) (c)	Define and classify Quinolones with synthesis of any one drug. Give synthesis of Miconazole and Mebindazole. Give brief note on etiology of malaria.	06 05 05	
Q.7	(a) (b)	 Give synthesis of Dapson and Trimethoprime. Do as directed. I. Comment: Amoxycillin and Ampicilin are frequently combined with clavulanic acid. II. Why tetracyclins are amphoteric in nature? Give brief note on combinatorial chemistry. 	06 05 05	
	(c)	Give brief note on combinatorial chemistry.	03	
