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

Subject Code: BP601TPDate: 01/07/202Subject Name: Medicinal Chemistry IIITime:10.30 a.m. to 1.30 p.m.Time:10.30 a.m. to 1.30 p.m.Total Marks: 8Instructions:1. Attempt any five questions.1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
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Q.1	(a)	Classify Quinolones with synthesis of any one drug.	06
	(b)	Write synthesis of Mebindazole and Miconazole	05
	(c)	Write short note on MDR TB, XDR TB and TDR TB.	05
Q.2	(a)	Write structure, synthesis, use and mechanism of action of Chloramphenicol.	06
	(b)	Write brief note on SAR of Quinolones with structural examples.	05
	(c)	Give brief note on combinatorial chemistry.	05
Q.3	(a) (b) (c)	 Give synthetic pathway of Dapson and Trimethoprime. Do as directed. I. Comment: Amoxycillin is frequently given in combined with clavulanic acid. II. Tetracyclins are not prescribe in pregnancy. Give brief note on etiology of malaria. 	06 05 05
Q.4	(a)	Define and classify anti-tubercular agents with synthesis of any one drug.	06
	(b)	Write short note on SAR of sulfonamides with structural examples.	05
	(c)	Give name and structure of any five drug containing imidazole ring system.	05
Q.5	(a)	Define and classify Penicillines and Tetracyclines with its mechanism of action.	06
	(b)	Give synthesis of Metronidazole and Sulfacetamide.	05
	(c)	Classify antiviral agents with structural examples of any five drugs.	05
Q. 6	(a) (b) (c)	Define and classify sulfonamides with structural examples.Write synthesis of Sulfamethoxazole and Para amino salicylic acidDraw structure of following drugs.i) Oxytetracyclineii) Clarithromyciniii) Isoniazidiv) Ciprofloxacinev) Norfloxacin	06 05 05
Q.7	(a)	What is drug design? Give brief note on physicochemical parameters used in QSAR.	06
	(b)	Give synthesis of Acyclovir and Chloroquine.	05
	(c)	Give brief note on prodrug with appropriate structural examples.	05
