GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm- SEMESTER–VII • EXAMINATION – WINTER -2020

Subject Code:2270003   **Date: 06/01/2021**
Subject Name: Pharmaceutical Chemistry-IX (Medicinal Chemistry-III)
Time: 10:30AM To 12:30PM   **Total Marks: 54**

Instructions:
1. **Attempt any THREE questions from Q-1 to Q-6.**
2. **Q.7 is compulsory to attempt.**
3. **Make suitable assumptions wherever necessary.**
4. **Figures to the right indicate full marks.**

Q.1	**(a)**	Classify Antibiotics. Explain the SAR of β-Lactam antibiotic.	**06**
	(b)	Explain in detail life cycle of malaria. Give synthesis of Metronidazole.	**05**
	(c)	Give a detailed account of antiamoebic agents.	**05**
Q.2	**(a)**	Describe in brief antineoplastic agent. Give synthesis of Tamoxifen & Thiotepa	**06**
	(b)	Give the detail account of QSAR physicochemical parameters.	**05**
	(c)	Write in brief Free Wilson model with its application.	**05**
Q.3	**(a)**	Write in brief mechanism of action of Macrolide with SAR of Aminoglycosides	**06**
	(b)	Give synthesis, therapeutic uses & mechanism action of chloramphenicol.	**05**
	(c)	Short Note on Computer Aided Drug Design.	**05**
Q.4	**(a)**	Classify sulphonamide. Give synthesis of sulphamethoxazole	**06**
	(b)	Explain molecular modeling with its significance	**05**
	(c)	Describe in brief β-Lactamase inhibitors.	**05**
Q.5	**(a)**	Explain in detail SAR of 4-Aminoquinoline & 8-aminoquinoline.	**06**
	(b)	Give a detail account of antifungal agents	**05**
	(c)	Write synthesis of a) Albendazole b) Clotrimazole	**05**
Q. 6	**(a)**	Discuss in brief Antiviral agents. Give its mechanism of action with example.	**06**
	(b)	Write a note on SAR of Tetracycline & Cephalosporine	**05**
	(c)	Short note on Hansch linear Free Energy Relationship.	**05**
Q.7	**(a)**	Classify Sulphonamide. Give a SAR of Fluroquinolones.	**06**
		OR	
	(a)	What is combinatorial synthesis in peptide & solid phase?	**06**
		OR	
	(a)	Discuss in brief lead optimization.	**06**

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