GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER VII • EXAMINATION – SUMMER -2021

Subject Code: 2270003   **Date: 05/08/2021**
Subject Name: PHARMACEUTICAL CHEMISTRY- IX
Time:10:30AM TO 01:30PM   **Total Marks: 80**
Instructions:
1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Classify Sulfonamindes in detail with examples & structures.	**06**
	(b)	Explain SAR activity of sulfonamides.	**05**
	(c)	Write chemical name & synthesis of Sulfamethoxazole & Ofloxacin.	**05**
Q.2	**(a)**	Classify fluoroquinolone & explain SAR activity of Fluoroquinolone.	**06**
	(b)	Enlist different types of beta- lactum antibiotics with examples & structures & explain any one type in detail.	**05**
	(c)	Classify Penicillin & explain mode of action of Penicillin.	**05**
Q.3	**(a)**	Give any three structure of Macroliide antibiotics & explain why Arithromycin is unstable in acid media?	**06**
	(b)	Explain SAR activity of Tetracyclines.	**05**
	(c)	Explain chemical instability of penicillin in detail.	**05**
Q.4	**(a)**	Classify anti malarial agents with examples & structures.	**06**
	(b)	Explain SAR activity of aminoglycoside antibiotics.	**05**
	(c)	Write chemical name & synthesis of Chloroquine & Metronidazole.	**05**
Q.5	**(a)**	Explain XDR-TB. Write a note on second line anti TB agents.	**06**
	(b)	Enlist with structure various azole anti fungal agents & explain mode of action of azole anti fungal agents.	**05**
	(c)	Write chemical name & synthesis of Isoniazide & Ketoconazole.	**05**
Q. 6	**(a)**	Classify anti neoplastic agents with examples & structures.	**06**
	(b)	Write a note on anti metabolites used as anti cancer agents.	**05**
	(c)	Write a note on anti viral agents.	**05**
Q.7	**(a)**	Explain in detail molecular modeling.	**06**
	(b)	Write a note on methods of lead discovery.	**05**
	(c)	Write a note on QSAR.	**05**

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