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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 7- EXAMINATION –WINTER - 2018

Subject Code:2270003Date: 19/11/2018Subject Name: Pharmaceutical Chemistry – IX (Medicinal Chemistry - III)Time:10:30 AM TO 01:30 PMTotal 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 sulfonamide on the basis of chemical structure and explain biosynthetic pathway leading to THF synthesis with involvement of sulfonamides	06
	(b)	Explain SAR of fluoroquinolones.	05
	(c)	Write chemical name and synthesis of sulfacetamide and norfloxacin.	05
Q.2	(a)	Classify cephalosporin and represent various ring and numbering system of clinically available beta-lactam antibiotic types with examples.	06
	(b) (c)	Explain chemical instability of penicillin in detail. Explain SAR activities of aminoglycoside antibiotics.	05 05
Q.3	(a)	Give any three structures of macrolide antibiotics and explain why erythromycin is unstable in acid media.	06
	(b) (c)	Explain epimerization and degradation of tetracycline in detail. Write a short note on carbapenem and monobactams.	05 05
Q.4	(a)	Classify antimalarial agents with examples and structures.	06
	(b)	Write chemical name and synthesis of primaquine and metronidazole.	05
	(c)	Explain SAR activities of quinolines.	05
Q.5	(a)	Explain XDR-TB. write a note on first-line anti TB agents.	06
	(b)	Classify and explain mechanism of action of azole antifungal agents.	05
	(c)	Write chemical name and synthesis of ketoconazole and isoniazid.	05
Q. 6	(a)	What is carcinoma? Classify anticancer agent with examples and structures.	06
	(b)	Write a note on alkylating agents used as anticancer agent.	05
	(c)	Write a note on antiviral 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
