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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 7 EXAMINATION - SUMMER -2020

Subject Code: 2270003 Date:28-10-2020 Subject Name: Pharmaceutical Chemistry – IX (Medicinal Chemistry - III) Time: 2:30 PM TO 5:30 PM 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) (b) (c)	What are sulfonamides ? Give their uses and adverse effects. Write short notes on β -lactam antibiotics. Give SAR of Penicillins.	06 05 05
Q.2	(a) (b) (c)	Classify cephalosporins with examples. What are fluoroquinolones. Write their SAR. What are aminoglycosides? Give their uses and mechanism of action.	06 05 05
Q.3	(a) (b) (c)	Classify Anti-TB drugs with examples. Give their mechanism of action. Give synthesis and SAR of Chloramphenicol. Write short notes on Antiamoebic drugs.	06 05 05
Q.4	(a) (b) (c)	Give life cycle of malarial parasite. Write SAR of Quinoline derivatives. Classify antifungal agents and give their mechanism of action. Write short notes on anti-HIV agents.	06 05 05
Q.5	(a) (b) (c)	Give IUPAC name and synthesis of; (i) Pyrimethamine (ii) Metronidazole (iii) Pyrazinamide. Write short notes on combinatorial chemistry. Explain in brief about Anti viral agents.	06 05 05
Q. 6	(a) (b) (c)	What are Antineoplastic drugs? Classify them with examples. Write short notes on adverse effects of Anticancer drugs. Give synthesis of Cyclophosphamide and Fluorouracil.	06 05 05
Q.7	(a) (b) (c)	Explain Hansch linear free energy relationship model of QSAR. Write short notes on Molecular modeling. How lead optimization is done?	06 05 05
