

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