

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 7 EXAMINATION – SUMMER -2019

Subject Code: 270003

Date: 13-05-2019

Subject Name: Pharmaceutical Chemistry-IX (Medicinal Chemistry)

Time: 02:30 PM TO 05:30 PM

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|-------------|-----|---|-----------|
| Q.1 | (a) | What are sulfonamides? Write Mechanism of action and SAR of Sulfonamides. | 06 |
| | (b) | Briefly explain SAR of Fluoroquinolones. | 05 |
| | (c) | Write synthesis of Thiotepa and Chloramphenicol | 05 |
| Q.2 | (a) | Write Mechanism of action, uses, side effects and degradation of Penicillins. | 06 |
| | (b) | Write detail SAR of Cephalosporins. | 05 |
| | (c) | Write short notes on Aminoglycosides antibiotics. | 05 |
| Q.3 | (a) | Briefly explain SAR of Tetracyclines. | 06 |
| | (b) | Write mechanism of action, chemistry and uses of Macrolide antibiotics. | 05 |
| | (c) | Write synthesis of Isoniazid and Chloroquine. | 05 |
| Q.4 | (a) | What are antitubercular agents ? Briefly explain first line antitubercular agents. | 06 |
| | (b) | Write short notes on Antifungal agents. | 05 |
| | (c) | Write synthesis of Albendazole and Metronidazole | 05 |
| Q.5 | (a) | Briefly explain Antiviral agents. | 06 |
| | (b) | What are immunomodulators? Write detail notes on Immunosuppressive agents. | 05 |
| | (c) | Write synthesis of Amantadine and Tamoxifen | 05 |
| Q. 6 | (a) | What are antineoplastic agents? Write detail notes on Alkylating anticancer agents. | 06 |
| | (b) | Write short notes on antimetabolite anticancer agents. | 05 |
| | (c) | Explain antithyroid drugs. Write synthesis of Methimazole. | 05 |
| Q.7 | (a) | What is diabetes? Write detail notes on oral hypoglycemic agents. | 06 |
| | (b) | Briefly explain nomenclature and stereochemistry of steroids. | 05 |
| | (c) | Write detail SAR on Adrenocorticoids. | 05 |
