

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**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.

- 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**