

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2020**

**Subject Code: BP601TP**

**Date:26-10-2020**

**Subject Name: Medicinal Chemistry III**

**Time: 10:30 AM TO 1:30 PM**

**Total Marks: 80**

**Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. All question carry marks.

- Q.1** (a) Discuss various approaches used in drug design. **6**  
(b) Write brief note on Combinatorial Chemistry. **5**  
(c) What is QSAR? Give detailed note on Hansch model. **5**
- Q.2** (a) Classify Antimalarial Agents with examples and structures. **6**  
(b) Discuss SAR of Quinolines. **5**  
(c) Write note on concept and applications of Prodrugs. **5**
- Q.3** (a) Differentiate terms with examples: Bacteriostatics & Bactericidals. Write SAR of Cephalosporins. **6**  
(b) Write short note on Chemistry of Aminoglycosides. **5**  
(c) Discuss Chemistry and advantages of Semisynthetic Penicilins. **5**
- Q.4** (a) Comment on: "Tetracyclines should not be taken with milk". Write SAR of Tetracyclines. **6**  
(b) Give synthesis of Chloramphenicol and Chloroquine **5**  
(c) Write short note on Macrolides. **5**
- Q.5** (a) What is MDR TB & XDR TB? Write a note on first-line Anti TB drugs. **6**  
(b) Give synthesis of Isoniazid and Ciprofloxacin. **5**  
(c) Write short note on Quinolones. **5**
- Q.6** (a) Explain in brief about Azoles as Antifungal Agents. Write synthesis of Tolnaftate. **6**  
(b) Explain SAR of Sulphonamides. Write synthesis of Sulphamethoxazole. **5**  
(c) Give the IUPAC name, synthesis and mechanism of Albendazole OR Mebendazole, an anthelmintic agent. **5**
- Q.7** (a) Write brief account on Antiamoebic Agents. Give synthesis of Metronidazole. **6**  
(b) Give synthesis of Trimethoprim and Nitrofurantoin **5**  
(c) Write detailed note on Antiviral Agents. **5**

\*\*\*\*\*