

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.

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| 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 |
