

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 |
