

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER-2024****Subject Code:BP601TP****Date: 30/04/2024****Subject Name: Medicinal Chemistry III****Time: 10.30 a.m. to 1.30 p.m.****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) Write about etiology of malaria. Discuss classification of anti-malarial agents. **06**
(b) Write SAR of Sulphonamides. **05**
(c) Write down synthesis, mode of action and uses of Dapsone. **05**
- Q.2** (a) Define combinatorial chemistry. Discuss concept and applications of combinatorial chemistry **06**
(b) Explain classification of Anthelmintic agents. **05**
(c) Give the synthesis of Chloroquine & Pamaquine. **05**
- Q.3** (a) What is QSAR? Write about Hansch analysis in QSAR. **06**
(b) Write a note on antiviral agents. **05**
(c) Discuss SAR of Tetracycline. **05**
- Q.4** (a) Discuss basic concepts and application of Prodrugs design. **06**
(b) Write SAR of Cephalosporins. **05**
(c) Write uses and synthesis of Metronidazole and Mebendazole. **05**
- Q.5** (a) Explain Classification of Anti-tubercular agents. **06**
(b) Write about mode of action, therapeutic uses and synthesis of Chloramphenicol. **05**
(c) Write a note on Aminoglycosides. **05**
- Q.6** (a) Classify antifungal agents. Write down mode of action and therapeutic use of azole class of antifungal agents. **06**
(b) Write a note on anti-protozoal agents. **05**
(c) Write uses and synthesis of Ciprofloxacin and Acyclovir. **05**
- Q.7** (a) Write a brief note on Quinolones. **06**
(b) Write about mode of action, therapeutic uses and synthesis of Sulphamethoxazole. **05**
(c) Write the chemical degradation of penicillin with structures. **05**
