| Seat No.: | Enrolment No. |
|-----------|---------------|
| | |

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – 6 EXAMINATION – SUMMER-2025

| • | | BP602TP Date: 13-05-2025 e: Pharmacology III | |
|------------------|---------------|--|----------|
| Time: 1 Instruct | 0.30 Altions: | M TO 01.30 PM Total Marks: 80 | |
| 2. | Make s | ot any five questions. Suitable assumptions wherever necessary. Suitable to the right indicate full marks. | |
| Q.1 | (a) | Discuss the combined use of antibiotics with suitable examples with emphasis on synergism and to prevent the emergence of resistance. | 06 |
| | ` ′ | Describe biochemical mechanisms of resistance to antibiotics. Define cough. Differentiate between Expectorants and Antitussive agents. | 05 05 |
| Q.2 | ` ′ | Classify antifungal agents based on their mechanism of action. Write the mechanism of action and adverse effect of amphotericin B and Capsofungin. | 06 |
| | | Classify antiviral drugs. Describe the pharmacology of acyclovir. Describe clinical symptoms and management of Organophosphorus poisoning | 05 05 |
| Q.3 | (a) | Describe the life cycle of the malarial parasite and write the mechanism of action and adverse effects of drugs acting on various phases of the life cycle of the parasite. | 06 |
| | | Explain the mechanism of action, adverse effects, and therapeutic uses of the following drugs (i.) Fluoroquinolone (ii.) Chloramphenicol. | 05 |
| Q.4 | | Write a note on proton pump inhibitors. What is HAART? Write a note on drugs used in the treatment of HIV | 05 06 |
| | | infection. Discuss treatment and management of diarrhea with emphasis on ORT. Classify semi-synthetic penicillins. Write antibacterial spectrum and therapeutic uses of amoxicillin. | 05 05 |
| Q.5 | `´ | Explain in detail: (i.) Superinfection and (ii.) Chronopharmacology Write the MOA of the following drugs: (i.) Metoclopramide (ii.) Mesalazine | 06 05 |
| | (c) | (iii.) Etofamide (iv.) Foscarnet (v.) Doxorubicin Enlist first-line drugs used in Tuberculosis and provide an overview of the DOTS strategy in India. | 05 |
| Q. 6 | (a) | Define immunopharmacology and Classify immunosuppressant drugs. Explain the Mechanism of action of Cyclosporine. | 06 |
| | | Classify Laxatives. Explain Osmotic purgatives. Classify cell cycle-specific inhibitors. Explain the mechanism of action and adverse effects of Vinca alkaloids. | 05 05 |
| Q.7 | \ / | Write a note on bacterial cell wall synthesis inhibitors. Classify types of Leprosy. Write detailed pharmacology of Dapsone. | 06 05 |

Explain the following terms: (i.) Gray baby syndrome (ii.) Kernictrus (iii.)

Jarisch Herxheimer's reaction (iv.) Fancony-like syndrome (v.) Crystaluria.

05