

Enrollment No./Seat No.:

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER - VI EXAMINATION - WINTER 2025

Subject Code: BP602TP

Date: 18-11-2025

Subject Name: Pharmacology III

Time: 02:30 PM TO 05:30 PM

Total Marks: 80

Instructions

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

	Marks
Q.1 (a) Define following term: (1) Chemotherapy (2) Tocolytic agents (3) Acute toxicity (4) Chronobiology (5) Superinfection (6) Teratogenicity	06
(b) Classify Anti-asthmatics and discuss mechanism of action of each class.	05
(c) Explain clinical symptoms and management of morphine and organophosphorus poisoning.	05
Q.2 (a) Classify immunosuppressant. Write in brief about calcineurin inhibitors.	06
(b) Differentiate between natural penicillin and semisynthetic penicillin.	05
(c) Classify the antiemetic agents and discuss pharmacology of Domperidone.	05
Q.3 (a) Classify antifungal agents. Discuss in brief onazole antifungals.	06
(b) Describe adverse effects of Tetracycline and Chloramphenicol.	05
(c) Explain the terms expectorant, antitussive, mucolytic and demulcent with examples.	05
Q.4 (a) Enlist characteristics, adverse effects and uses of Aminoglycoside antibiotics.	06
(b) Enlist causes of constipation. Categorize Laxatives with their mechanism of actions.	05
(c) Write a short note on antiretroviral drugs.	05
Q.5 (a) Write a note on gastric acid secretion inhibitors used in peptic ulcer.	06
(b) Give the mechanism of action and uses of the following (i) Cotrimoxazole (ii) Mebendazole (iii) Metronidazole (iv) Azithromycin (v) Vinblastine	05
(c) Classify types of Leprosy. Write a note on lepra reaction.	05
Q.6 (a) Classify antimicrobial drugs according to their mechanism of action. Enlist various mechanisms of resistance to antimicrobial drugs.	06
(b) Explain the mechanism of action and adverse effects of alkylating agents.	05
(c) Discuss pathophysiology and management of COPD	05
Q.7 (a) Explain the life cycle of malarial parasite and describe the mechanism of action of antimalarial drugs acting on different stages of its life cycle.	06

- (b)** Classify antitubercular drugs and discuss the concept of DOTS strategy in tuberculosis control. **05**
- (c)** Discuss the management of UTI. **05**
