

GUJARAT TECHNOLOGICAL UNIVERSITY
PHARM.D YEAR-3 EXAMINATION – SUMMER - 2025

Subject Code: 838801**Date: 01-05-2025****Subject Name: Pharmacology-II****Time: 10:30 A.M. TO 1:30 P.M.****Total Marks: 70****Instructions:**

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

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| Q.1 | (a) Classify diuretics. Discuss the mechanism and uses of spironolactone. | 06 |
| | (b) Write a note on plasma expanders. | 04 |
| | (c) Classify antiplatelet drugs. Discuss the mechanism and uses of Aspirin. | 04 |
| Q.2 | (a) Discuss the mechanism and adverse effects of
(i) Chloramphenicol (ii) Ofloxacin (iii) Co-trimoxazole. | 06 |
| | (b) What is chronic toxicity? Write its importance in preclinical studies. | 04 |
| | (c) Outline the complete life cycle of malarial parasite. Discuss the use of “Co-artemether”. | 04 |
| Q.3 | (a) Discuss the mechanism and uses of
(i) Desmopressin (ii) Warfarin (iii) Abciximab | 06 |
| | (b) What is Drug Resistance? Discuss the mechanism of it. | 04 |
| | (c) Discuss the complete pharmacology of mebendazole. | 04 |
| Q.4 | (a) Classify anticancer agents. Discuss anti metabolites in detail. | 06 |
| | (b) Write a note on cephalosporins. | 04 |
| | (c) Write a note on cell cycle regulators. | 04 |
| Q.5 | (a) Justify the following comments. | 06 |
| | (i) Sulphonamides are associated with kernicterus if administered in newborns. | |
| | (ii) Pyridoxine should be given prophylactically with higher doses of isoniazide. | |
| | (iii) Zidovudine and Stavudine should not be used in combination. | |
| | (b) Define Immunomodulator. Discuss in detail about cyclosporine. | 04 |
| | (c) Classify antifungal drugs. Discuss the mechanism and uses of ketoconazole. | 04 |
| Q. 6 | (a) Classify semisynthetic penicillins. Discuss the mechanism, uses and adverse effects of ampicillin. | 06 |
| | (b) Write a note on tumor suppressor gene. | 04 |
| | (c) Discuss the signaling transduction pathway of MAP kinase. | 04 |
| Q.7 | (a) Write a note on protein synthesis. | 06 |
| | (b) Discuss the transcription regulator factors in prokaryotes. | 04 |
| | (c) Define mutation. Classify mutations. | 04 |
