

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Pharm D –3<sup>rd</sup> Year • EXAMINATION – WINTER - 2022**

**Subject Code: 838801****Date: 24/01/2023****Subject Name: Pharmacology-II****Time: 10:30 AM TO 01:30 PM****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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|------------|--|-----------|
| <b>Q.1</b> | (a) Classify diuretics. Explain the pharmacology of thiazide diuretics.          | <b>06</b> |
|            | (b) Classify anti-platelets. Write their clinical uses.                          | <b>04</b> |
|            | (c) Write a note on parenteral iron preparations.                                | <b>04</b> |
| <b>Q.2</b> | (a) Write in detail the pharmacology of Ciprofloxacin.                           | <b>06</b> |
|            | (b) Write the advantages and disadvantages of Co-trimoxazole.                    | <b>04</b> |
|            | (c) Write a note on Dapsone.   | <b>04</b> |
| <b>Q.3</b> | (a) Classify beta -lactam antibiotics. Write the pharmacology of Penicillin-G.   | <b>06</b> |
|            | (b) Write the toxicity profile of Aminoglycoside antibiotics.                    | <b>04</b> |
|            | (c) Write a note on topical antifungals.   | <b>04</b> |
| <b>Q.4</b> | (a) Define and classify anti-tubercular drugs. Write a note on first line drugs. | <b>06</b> |
|            | (b) Explain the adverse effects of tetracycline                                  | <b>04</b> |
|            | (c) Write a note on NRTIs.   | <b>04</b> |
| <b>Q.5</b> | (a) Define anticoagulants. Write the pharmacology of Warfarin.                   | <b>06</b> |
|            | (b) Write the advantages and disadvantages of combined use of antimicrobials     | <b>04</b> |
|            | (c) Classify immuno-stimulants. Explain their uses.                              | <b>04</b> |
| <b>Q.6</b> | (a) Explain in detail mechanism of protein synthesis in eukaryotic cells.        | <b>06</b> |
|            | (b) Write a note on genetic elements that control gene expression.               | <b>04</b> |
|            | (c) Write a note on biosensors.  | <b>04</b> |
| <b>Q.7</b> | (a) Write in detail about macromolecules found in eukaryotic cell.               | <b>06</b> |
|            | (b) Write a note on oncogenes and tumor suppressor genes                         | <b>04</b> |
|            | (c) Write the role of cell cycle regulators in cell division                     | <b>04</b> |

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