

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**PHARM.D YEAR-2 EXAMINATION – SUMMER-2023**

**Subject Code: 828804**

**Date: 26\06\2023**

**Subject Name: Pharmacology-I**

**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) | Write Mechanism of action, Pharmacological action, Therapeutic use and toxicity of Digoxin.                 | <b>06</b> |
|             | (b) | Write down pharmacology of Oxytocics.   | <b>04</b> |
|             | (c) | Classify anti-arrhythmic drugs. Explain about quinidine in detail.  | <b>04</b> |
| <b>Q.2</b>  | (a) | Classify anti-anginal drugs. Explain about nitrates.  | <b>06</b> |
|             | (b) | Write a note on oral contraceptives.  | <b>04</b> |
|             | (c) | Enlist and explain various factors responsible for variation in drug response.                              | <b>04</b> |
| <b>Q.3</b>  | (a) | Give mechanism of action and pharmacological actions of thyroid hormones.                                   | <b>06</b> |
|             | (b) | Differentiate between depolarizing and non-depolarizing blockers.   | <b>04</b> |
|             | (c) | Write short note on 5-HT receptors.   | <b>04</b> |
| <b>Q.4</b>  | (a) | Classify sympathomimetics. Write Pharmacological action and therapeutic use of adrenaline.                  | <b>06</b> |
|             | (b) | Classify anti psychotics and explain pharmacology of any one class.   | <b>04</b> |
|             | (c) | Write short note on Aldehyde dehydrogenase inhibitors.  | <b>04</b> |
| <b>Q.5</b>  | (a) | Classify oral hypoglycemic agents and differentiate between Sulphonylurea, DPP4 inhibitors and Biguanides.  | <b>06</b> |
|             | (b) | Write in detail about benzodiazepine.   | <b>04</b> |
|             | (c) | Write short note on expectorants and classify drugs used in asthma.   | <b>04</b> |
| <b>Q. 6</b> | (a) | Enlist different types of G-proteins. Explain signal transduction mechanism in G-protein coupled receptors. | <b>06</b> |
|             | (b) | Classify the routes of drug administration. Write a note on transcutaneous route.                           | <b>04</b> |
|             | (c) | Enumerate different reactions involved in Biotransformation of drugs. Discuss phase II in detail.           | <b>04</b> |
| <b>Q.7</b>  | (a) | Classify antiparkinson drugs. Justify use of carbidopa in combination of levodopa.                          | <b>06</b> |
|             | (b) | Write a note on pre-anesthetic agents.  | <b>04</b> |
|             | (c) | Classify local anesthetics. Write about adverse effects, uses & techniques of local anesthesia.             | <b>04</b> |

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