

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY YEAR- 2 • EXAMINATION – WINTER - 2023

Subject Code: 420003

Date:13/12/2023

Subject Name: Pharmacology and Toxicology

Time: 10:30 AM TO 01:30 PM

Total Marks: 80

Instructions:

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

- Q.1** (a) Classify sympathomimetics and write the therapeutic uses of adrenaline. **06**
(b) Write the pharmacological actions and therapeutic uses of Atropine. **05**
(c) Define the following terms. **05**
Chemotherapy, Prodrug, Drug receptor, Pharmacodynamics, Toxicology
- Q.2** (a) Define the pharmacokinetic and Describe the factors affecting absorption of drugs **06**
(b) Write a note on plasma protein binding of drug. **05**
(c) Write the classification of anti hypertensive agents. **05**
- Q.3** (a) Write the mechanism of action and pharmacological actions of digitalis. **06**
(b) Write pharmacological actions of insulin. **05**
(c) Write the Classification Anti malarial drugs. **05**
- Q.4** (a) Write the classification and mechanism of action of cephalosporines. **06**
(b) Describe the different stages of anesthesia. **05**
(c) Write short note on Co-Trimoxazole. **05**
- Q.5** (a) Classify antitubercular agents. Write mechanism of action, pharmacological action and adverse effect of Isoniazide. **06**
(b) Classify diuretics .Write a note on Loop diuretics. **05**
(c) Write mechanism of action , pharmacological action ,uses and adverse effect of Digitalis. **05**
- Q. 6** (a) Explain following term with examples: **06**
(1) Antacid (2) Laxative (3) Expectorant
(b) Write the adverse effects of tetracycline and chloramphenicol . **05**
(c) Differentiate narcotic and non-narcotic analgesic. Explain mechanism of action of NSAIDs. **05**
- Q.7** (a) Classify anticancer agents. Write a note on Methotrexate. **06**
(b) Enlist the injectional route of drug administration. Explain sublingual route. **05**
(c) Write a note on ampicillin. **05**
