

GUJARAT TECHNOLOGICAL UNIVERSITY
PHARM.D YEAR-2 EXAMINATION – WINTER - 2025

Subject Code: 828806**Date: 26-11-2025****Subject Name: Pharmacotherapeutics-I****Time: 02 : 30 PM TO 05 : 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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|-------------|-----|--|-----------|
| Q.1 | (a) | What is polymorphic ventricular tachycardia (PVT)? Explain the etiopathogenesis of PVT. | 06 |
| | (b) | Identify and explain the obstacles that contribute to the irrational use of drugs. | 04 |
| | (c) | Define the following:
1. Preload 2. White-coat Hypertension 3. Afterload 4. Blood Pressure | 04 |
| Q.2 | (a) | Discuss the role of HMG CO-A reductase inhibitors and fibrates in the management of hyperlipidaemia. | 06 |
| | (b) | Differentiate between Chronic Bronchitis and Emphysema based on their clinical manifestations. | 04 |
| | (c) | Define Hyperosmolar hyperglycemic state (HHS). Explain the complications of HHS. | 04 |
| Q.3 | (a) | Differentiate between ST-segment elevation myocardial infarction (STEMI) and non-ST-segment elevation myocardial infarction (NSTEMI). | 06 |
| | (b) | List the drugs that cause QT prolongation. | 04 |
| | (c) | Explain briefly thyrotoxicosis and Thyroid storm. | 04 |
| Q.4 | (a) | What is diabetic ketoacidosis? Explain the management of DKA. | 06 |
| | (b) | Enumerate five common combination oral contraceptive regimens. | 04 |
| | (c) | Write a brief note on the following:
1. Osteoclast 2. T – score | 04 |
| Q.5 | (a) | Explain in detail the management of myxedema coma. | 06 |
| | (b) | Explain the treatment objectives of hormone replacement therapy (HRT) in post-menopausal women. | 04 |
| | (c) | Write the following formula to calculate dosage regimen in pediatric patients:
1. Young's formula 2. Dilling's formula | 04 |
| Q. 6 | (a) | Explain the categorization of drugs in pregnancy with two suitable examples for each category. | 06 |
| | (b) | Justify why chloramphenicol is contraindicated in paediatrics. | 04 |
| | (c) | Explain the following terminologies:
1. Rational drug use 2. Intraocular pressure (I.O.P) | 04 |
| Q.7 | (a) | Enumerate the distinguishing characteristics of open-angle and closed-angle glaucoma. | 06 |
| | (b) | Describe the fundamental principles of essential drugs and outline the criteria used to determine whether a drug should be included in the essential drugs list. | 04 |
| | (c) | Explain the pharmacotherapy of bacterial conjunctivitis. | 04 |
