

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – V EXAMINATION – WINTER-2025

Subject Code: BP501TT

Date: 14-11-2025

Subject Name: Medicinal Chemistry II

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.

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|-------------|---|-----------|
| Q.1 | (a) Enlist various histamine receptors. Discuss neurochemistry of histamine. | 06 |
| | (b) Give note on development of H ₂ -antagonists. | 05 |
| | (c) Write synthesis of Acetazolamide and Furosemide. | 05 |
| Q.2 | (a) Classify anti-hypertensive agents with suitable examples. | 06 |
| | (b) Write note on anticancer antibiotics. | 05 |
| | (c) Classify anticancer anti-metabolites. Give synthesis and uses of Methotrexate. | 05 |
| Q.3 | (a) What are diuretics? Classify diuretics with suitable examples. | 06 |
| | (b) Write a note on anti-thyroid drugs. | 05 |
| | (c) Give elaborate note on Proton pump inhibitors. | 05 |
| Q.4 | (a) Discuss coagulants and anticoagulants. | 06 |
| | (b) Classify anti-anginal agents. Describe the mechanism of action and use of nitrates. | 05 |
| | (c) Write note on anti-hyperlipidemic drugs. | 05 |
| Q.5 | (a) Define and classify Antiarrhythmic drugs. Explain mode of action in each class. | 06 |
| | (b) Write a note on drugs used in congestive heart failure. | 05 |
| | (c) Describe drugs used for erectile dysfunction. | 05 |
| Q. 6 | (a) Give synthesis of Tolbutamide, Benzocaine and Procaine. | 06 |
| | (b) Write short note on corticosteroids. | 05 |
| | (c) Give detail note on oral contraceptives. | 05 |
| Q.7 | (a) Classify Antidiabetic drugs. Write note on Sulfonyl ureas derivative anti-diabetic drugs. | 06 |
| | (b) Describe the SAR of Local anesthetic. | 05 |
| | (c) Give note on estrogen analogues and their uses. | 05 |
