

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 5 EXAMINATION – WINTER -2024**

**Subject Code: BP501TT****Date: 19-11-2024****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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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Define anti-histamine? Classify H1 antagonist in detail.   | <b>06</b> |
|             | (b) Explain type of diabetes and write a note on sulfonylurea.                                       | <b>05</b> |
|             | (c) Give structure and uses of following compound<br>Flourouracil, Nifedipine, Lignocaine.           | <b>05</b> |
| <b>Q.2</b>  | (a) Describe nomenclature and stereochemistry of steroids.   | <b>06</b> |
|             | (b) Write a note on anti-thyroid agent.  | <b>05</b> |
|             | (c) Explain HMG COA reductase inhibitors in detail.  | <b>05</b> |
| <b>Q.3</b>  | (a) Define antihypertensive drug and write a note on Calcium channel blockers.                       | <b>06</b> |
|             | (b) Outline the synthesis of following drugs.<br>(1) Nitroglycerine (2) furosemide                   | <b>05</b> |
|             | (c) Write a note on coagulant and anticoagulant.   | <b>05</b> |
| <b>Q.4</b>  | (a) Define diuretic and explain in detail thiazide diuretic.   | <b>06</b> |
|             | (b) Write a note on antimetabolites.   | <b>05</b> |
|             | (c) Outline the synthesis of following drugs.<br>(1) Cimetidine (2) Benzocaine                       | <b>05</b> |
| <b>Q.5</b>  | (a) Describe the SAR of Local anesthetics.   | <b>06</b> |
|             | (b) Give structure and use of following compound<br>Doxorubicin, Amlodipine, Cetrizine               | <b>05</b> |
|             | (c) Write a note on drugs for erectile dysfunction.  | <b>05</b> |
| <b>Q. 6</b> | (a) Define and classify anti-arrythmic agent and give synthesis of Disopyramide<br>Phosphate.        | <b>06</b> |
|             | (b) Write a note on Proton Pump inhibitors.  | <b>05</b> |
|             | (c) Explain alkylating agent in detail.  | <b>05</b> |
| <b>Q.7</b>  | (a) Write a note on Progestogens.  | <b>06</b> |
|             | (b) Outline the Synthesis of following drugs.<br>(1) Meclorothamine 2) Diphenhydramine hydrochloride | <b>05</b> |
|             | (c) Write a note on drugs used in Congestive heart failure.  | <b>05</b> |

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