

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-V • EXAMINATION – WINTER-2020

Subject Code:BP501TT**Date: 02/01/2021****Subject Name: Medicinal Chemistry II****Time: 10:30AM TO 12:30PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. **Q.7** is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

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| Q.1 | (a) Enlist various histamine receptors. Discuss neurochemistry of histamine. | 06 |
| | (b) Short note on oral contraceptives. | 05 |
| | (c) Write synthesis of following
i) Promethazine hydrochloride ii) Cimetidine | 05 |
| Q.2 | (a) Discuss in detail about proton pump inhibitors along with its mechanism of action. | 06 |
| | (b) Short note on H ₂ receptor antagonist. | 05 |
| | (c) What do you mean by Diuretics? Classify and give the synthesis of Furosemide. | 05 |
| Q.3 | (a) Short note on Antiarithmetic agents | 06 |
| | (b) Write short notes on coagulants and anticoagulants. | 05 |
| | (c) Write Synthesis of following
i) Nitroglycerin ii) Methyldopa | 05 |
| Q.4 | (a) SAR of local anaesthetic. | 06 |
| | (b) Write Synthesis of following
i) Tolbutamide ii) Benzocaine | 05 |
| | (c) Define and classify Antianginal agents with the synthesis of Isosobide dinitrate. | 05 |
| Q.5 | (a) Discuss the various factors which are affecting on blood coagulation and write a note on Warfarin. | 06 |
| | (b) Define antihypertensive agents with its classification and write a note on calcium channel blockers. | 05 |
| | (c) Write Synthesis of following
i) Chlorthiazide ii) Acetazolamide | 05 |
| Q.6 | (a) Write short notes on stereochemistry of steroids. | 06 |
| | (b) Short note on testosterone. | 05 |
| | (c) Give detail account on various corticosteroids. | 05 |
| Q.7 | (a) What is Diabetes? Classify antidiabetics with examples and give their mechanism of action. | 06 |
| | OR | |
| | (a) Write a note on antithyroid drugs. | 06 |
| | OR | |
| | (a) What is obesity? Write a note on antiobesity drugs. | 06 |
