

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm- SEMESTER-V EXAMINATION – WINTER -2021

Subject Code: BP501TT**Date:13/12/2021****Subject Name: Medicinal Chemistry-II****Time: 10:30am to 01:30pm****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 H₁-receptor antagonists. Write the structure and use of one drug from each category. **06**
- (b) Write a short note on gastric proton pump inhibitors. **05**
- (c) Write structure and use of following drugs: **05**
 (a) Ethacrynic acid (b) Benzocaine (c) Metformin (d) Ranitidine
 (e) Cetrizine
- Q.2** (a) Classify corticosteroids with suitable examples. Write chemical structure of any one drug from each category. **06**
- (b) Write an informative note on anti-angial agents. **05**
- (c) Write a short note on oral anticoagulants. **05**
- Q.3** (a) What are diuretics? Classify diuretics with examples. Give synthesis of Acetazolamide. **06**
- (b) Classify antihyperlipidemic agents with suitable examples and structures in each category. **05**
- (c) Write a short note on drugs used for erectile dysfunction. **05**
- Q.4** (a) What are anti-neoplastic agents? Classify them and write about any one class in detail. **06**
- (b) What is Diabetes Mellitus? Write chemical classification of oral hypoglycemic agents with suitable examples and structures in each category. **05**
- (c) Outline synthetic scheme and use of following drugs (Any two): **05**
 (a) Methotrexate (b) Warfarin (c) Tolbutamide
- Q.5** (a) Outline the SAR of local anesthetics. **06**
- (b) What are antihypertensive agents? Classify them and write two chemical structures of each class. **05**
- (c) Define and classify anti-arrhythmic agents and explain mode of action of each class. **05**
- Q.6** (a) Write a short note on H₂-receptor antagonists. **06**
- (b) Define and classify antithyroid drugs. Give chemical structure of any one drug from each category. **05**
- (c) Write a short note on oral contraceptives. **05**
- Q.7** (a) What are hormones? Discuss nomenclature and stereochemistry of steroids. **06**
- (b) Write a short note on Angiotensin Converting Enzyme inhibitors. **05**
- (c) Write in detail 1,4-dihydropyridine calcium channel blockers. **05**