

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- VIII • EXAMINATION – WINTER -2020

Subject Code: 2280003**Date: 06/01/2021****Subject Name: Pharmaceutical Chemistry-X (Medicinal Chemistry-III)****Time: 02:00PM TO 04:00PM****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.

- Q.1** (a) Define and classify Diuretic Agents. Discuss the SAR among Progestins and Androgens. **06**
(b) Give the method of synthesis of (i) Lignocaine (ii) Atenolol **05**
(c) Discuss the SAR among HMG CoA Reductase inhibitors. **05**
- Q.2** (a) What is Diabetes? Classify antidiabetics with examples and give their mechanism of action. **06**
(b) Give SAR of ACE inhibitors. **05**
(c) Give the method of synthesis of (i) Acetazolamide (ii) Captopril **05**
- Q.3** (a) Give the method of synthesis of **06**
(i) Warfarin (ii) Metformin (iii) Carbimazole.
(b) Discuss the SAR among **05**
(i) Thiazide Diuretics (ii) 5 – Sulfamoyl Benzoic acid derivatives.
(c) Discuss the SAR among **05**
(i) Estrogens (ii) Dihydropyridines
- Q.4** (a) Discuss the SAR among Cardiac glycosides. **06**
(b) Write informative note on Anti platelet Agents. **05**
(c) Discuss detail about plasma expanders. **05**
- Q.5** (a) Explain in detail the nomenclature and stereochemistry of Steroidal Compounds. **06**
(b) Write down notes on Coagulants and Anticoagulants. **05**
(c) Write short notes on Thrombolytic agents. **05**
- Q.6** (a) Give the method of synthesis of **06**
(i) Clofibrate (ii) Ethacrinic acid (iii) Glimipride
(b) Define and classify Hypoglycemic Agents. **05**
(c) Write short notes on Thrombolytic agents. **05**
- Q.7** (a) What are the causes of hypertension? Write a note on B-blockers. **06**
OR
(a) What is obesity? Write a note on antiobesity drugs. **06**
OR
(a) Write detail note on Cardio tonic Agents. **06**
