

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – WINTER -2019

Subject Code: 2280003**Date: 19-11-2019****Subject Name: Pharmaceutical Chemistry – X (Medicinal Chemistry - III)****Time: 02:30 PM TO 05:30 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) | Classify Antidiabetics. Give synthesis of Glimipiride | 06 |
| | (b) | Give SAR of Dihydropyridines | 05 |
| | (c) | Give synthesis of Metoprolol and Amlodipine | 05 |
| Q.2 | (a) | Classify antiarrhythmic agents. Give synthesis of Lignocaine | 06 |
| | (b) | Discuss SAR of ACE inhibitors. | 05 |
| | (c) | Give account of coagulants and anticoagulants. Give synthesis of warfarin | 05 |
| Q.3 | (a) | Discuss recent developments in antihyperlipidemic agents | 06 |
| | (b) | Give SAR of HMG Co-A reductase inhibitors. Give synthesis of Clofibrate | 05 |
| | (c) | What is Obesity? Write a note on antiobesity drugs | 05 |
| Q.4 | (a) | Write a note on antianginal agents | 06 |
| | (b) | Discuss in brief thrombolytic agents. | 05 |
| | (c) | What are plasma expanders? Provide their chemistry | 05 |
| Q.5 | (a) | Discuss adrenocorticoids. | 06 |
| | (b) | Explain nomenclature and stereochemistry of steroids | 05 |
| | (c) | Write a note on cardiac glycosides. | 05 |
| Q.6 | (a) | Write a brief note on sex hormones | 06 |
| | (b) | What are antithyroid agents? Classify with examples. | 05 |
| | (c) | Give details on antiplatelet agents | 05 |
| Q.7 | (a) | What are diuretics? Give details of 5-Sulfamoyl benzoic acid derivatives | 06 |
| | (b) | Give synthesis of Acetazolamide and Ethacrinic acid | 05 |
| | (c) | What are immunomodulators? Discuss about each in detail | 05 |
