

Seat No.: _____

Enrolment No. _____

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

Subject Code: 280003**Date: 10-05-2019****Subject Name: Pharmaceutical Chemistry-X (Medical Chemistry)****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.

- Q.1** (a) What are Antihypertensive agents? Classify them in detail. **06**
(b) Give SAR of cardiac glycosides. **05**
(c) Write synthesis of Carvedilol and Captopril. **05**
- Q.2** (a) Give SAR of dihydropyridines. Give examples of two such drugs. **06**
(b) What is the difference between cardenolides & bufadienolides? **05**
(c) Name the drug which is synthesised by Hantzsch synthesis. **05**
- Q.3** (a) What is the full form of ACE? Give the pathway of ACE inhibition by drugs. **06**
(b) What is flecainide and how it is synthesised? **05**
(c) Define angina. How it can be controlled? **05**
- Q.4** (a) Give SAR of HMGCoA reductase inhibitors. **06**
(b) How bile acid sequestering agents act? **05**
(c) Write synthesis of warfarin. How it acts? **05**
- Q.5** (a) Write a note on thrombolytic agents & plasma expanders. How they act? **06**
(b) What are carbonic anhydrase inhibitors? How they act? Give examples and structure of two drugs. **05**
(c) How Free Wilson Mathematical Model helps in drug design? **05**
- Q. 6** (a) Define Diuretic agents? Write SAR of thiazide diuretics. **06**
(b) Write synthesis of furosemide and Ethacrinic acid. **05**
(c) Define CADD. Give its importance. **05**
- Q.7** (a) Write a note on anti obesity drugs. How the drugs reduce lipids? **06**
(b) Write a note on Optimization of lead. **05**
(c) Explain in detail combinatorial synthesis & parallel synthesis. **05**
