

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM.-SEMESTER-VIII- EXAMINATION –SUMMER-2017

Subject Code: 280003

Date: 02/05/2017

Subject Name: Pharmaceutical Chemistry-x (*Medicinal 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.**

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|-------------|--|-----------|
| Q.1 | (a) Define and classify Antihypertensive agents with suitable examples. | 06 |
| | (b) Outline SAR activity of Thiazide diuretics. | 05 |
| | (c) Out line the synthesis of furosemide and acetazolamide. | 05 |
| Q.2 | (a) Enumerate different methods used in QSAR & discuss any one of them. | 06 |
| | (b) Write a note on methods of lead discovery | 05 |
| | (c) Explain direct and indirect molecular modeling. | 05 |
| Q.3 | (a) Define and classify diuretics with suitable examples. Discuss mode of action of carbonic anhydrase inhibitors. | 06 |
| | (b) Discuss SAR of cardiac glycosides and write synthesis of dobutamine. | 05 |
| | (c) Write a note on antiplatelet agents. Give the synthesis of hydralazine. | 05 |
| Q.4 | (a) Discuss SAR of HMG CoA reductase inhibitors and synthesis of Clofibrate. | 06 |
| | (b) Explain in detail about Antianginal agents. | 05 |
| | (c) Write a note on plasma expanders. | 05 |
| Q.5 | (a) Define and classify lipid lowering agents. Give the synthesis of lignocaine. | 06 |
| | (b) Discuss SAR activity of ACE inhibitors. Give the synthesis of Amlodipine. | 05 |
| | (c) Write a short note on Anticoagulants. | 05 |
| Q. 6 | (a) Explain steric and electronic parameter used in QSAR in detail. | 06 |
| | (b) Write a note on combinatorial chemistry. | 05 |
| | (c) Write a note on antiobesity drugs. | 05 |
| Q.7 | (a) Define and classify Anti arrhythmic agents and explain mode of action of each class. | 06 |
| | (b) Write a note on thrombolytic agents. | 05 |
| | (c) Write a note on CADD. | 05 |
