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**

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