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Seat No.: _____ Enrolment No. _____

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

Subject Code: 2280003	Date: 27-10-2020
Subject Name: PHARMACEUTICAL CHEMISTRY, X	

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Time: 10:30 AM TO 1:30 PM Total Marks: 80

Instructions:

(c)

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.

3.		res to the right indicate full marks.	
Q.1	(a)	Define Positive Ionotropic agents with examples & structures. Explain chemistry of Cardiac glycosides in detail.	06
	(b)	Write a short note on (I) Organic nitrates (II) Calcium channel blockers	05
	(c)	What is obesity? Write a note on anti obesity drugs.	05
Q.2	(a)	Classify antianginal agents. Explain SAR activity of Cardicac glycosides.	06
	(b)	Write a chemical name & synthesis of Lignocaine & Nifedipine.	05
	(c)	Explain angiotensin I & angiotensin II blockers with examples & structures.	05
Q.3	(a)	Classify anti hypertensive agents with examples & structures.	06
	(b)	Write a short note on Plasma expanders.	05
	(c)	Explain SAR activity of HMG – Co A reductase inhibitors.	05
Q.4	(a)	What is re-entry phenomenon? Explain electrophysiological mechanism of anti arrhythmic agents.	06
	(b)	Give the examples of Statins with structures & explain hydrolytic inhibition of HMG CoA reductase enzyme.	05
	(c)	Write a chemical name & synthesis of Glyceryltrinitrate & Clofibrate.	05
Q.5	(a)	Give the examples of first & second generation of Sulfonylureas with structures. Add a note on insulin.	06
	(b)	Explain SAR activity of ACE inhibitors.	05
	(c)	Write a chemical name & synthesis of Metformin & Warfarin.	05
Q. 6	(a)	What is high-ceiling diuretics. Classify diuretics with examples & structures.	06
	(b)	Write a short note on (I) Mineralocorticoide receptor antagonist (II) Sulfonamide derivatives	05
	(c)	Enlist different types of sex hormones with examples & structures & explain any one in detail.	05
Q.7	(a) (b)	Explain steroid nomenclature, strereochemistry & numbering system in detail. Explain SAR activity of androgens & anabolic agents.	06 05

What are adrenocorticoids? Give biosynthesis of Aldosterone & Hydrocortisone.

05