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

Subject Code: 2280003 Date: 10-05-2019 **Subject Name: Pharmaceutical Chemistry - X (Medicinal Chemistry - III)** Time: 10:30 AM TO 01:30 PM **Total Marks: 80 Instructions:**

- 1. Attempt any five questions.
- Make suitable assumptions wherever necessary.
 Figures to the right indicate full marks.

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Q.1	(a)	Define and classify Antihyperlipidemic agents. Give the structural formula of any three drugs belonging to different class.	06
	(b) (c)	Discuss the SAR of HMG CoA Reductase inhibitors. Write short notes on heparin as anticoagulant.	05 05
Q.2	(a)	Classify Antiarrhythmic agents with one structure in each class. Write synthesis of Lignocaine.	06
	(b)	Discuss Plasma expanders in detail.	05
	(c)	Write short notes on sodium channel blockers as antiarrhythmic agents.	05
Q.3	(a)	Classify diuretics with one structure in each class. Write mechanism of action, uses and side effect of spironolactone.	06
	(b)	Give SAR of thiazide diuretics.	05
	(c)	Write a note on Antiobesity Drugs.	05
Q.4	(a) (b) (c)	Define and classify antidiabetic agents. Give the synthesis of Metformin. Write a short note on Adrenocorticoids. Explain in detail the nomenclature and stereochemistry of steroidal compounds.	06 05 05
Q.5	(a)	Define and classify cardiotonics with examples. Give SAR of Cardiac glycosides.	06
	(b)	Discuss SAR of ACE inhibitors.	05
	(c)	Give the synthesis and uses of the following: (Any two) (i) Methimazole (ii) Dobutamine (iii) Atenolol	05
Q. 6	(a)	Write informative note on Antiplatelet agents.	06
	(b)	Discuss SAR of estrogens.	05
	(c)	Write a detailed note on Immunomodulators.	05
Q.7	(a)	What are androgens? Give their SAR and brief idea about anabolic agents.	06
	(b)	Give synthesis of hydrochlorthiazide and Furosemide.	05
	(c)	Give synthesis of glyceryltrinitrate and Nifedipine.	05
