

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-8 • EXAMINATION – SUMMER -2018

Subject Code: 2280003

Date: 02/05/2018

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.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	Write a note on nomenclature and stereochemistry of steroids.	06
	(b)	Define and classify antidiabetic agents. Give the synthesis of tolbutamide.	05
	(c)	Write a note on anti-obesity drugs.	05
Q.2	(a)	Give a detailed SAR of adreno-corticoids.	06
	(b)	Write a note on immunomodulators.	05
	(c)	Write a note on thrombolytic agents.	05
Q.3	(a)	What are cardiotonic agents . Give SAR of cardiac glycosides.	06
	(b)	Define and classify antianginal agents. Give synthesis of glyceryltrinitrate.	05
	(c)	Write a note on antiplatelet agents.	05
Q.4	(a)	Define and classify antihypertensive agents. Give synthesis of atenolol.	06
	(b)	Write a note on coagulants and anticoagulants.	05
	(c)	Write a note on antithyroid drugs.	05
Q.5	(a)	Give a detailed SAR on progestins and androgens.	06
	(b)	Give synthesis of methimazole and carbimazole.	05
	(c)	Write a note on antihyperlipidemic agents.	05
Q. 6	(a)	Give the IUPAC name and synthesis of 1)lignocaine 2) clofibrate 3) warfarin	06
	(b)	Write a note on plasma expanders.	05
	(c)	Write a note on thyroid hormones.	05
Q.7	(a)	What are diuretics. Give detailed SAR of thiazide diuretics.	06
	(b)	Give synthesis of hydrochlorthiazide and Furosemide.	05
	(c)	Give synthesis of metformin and pioglitazone.	05
