

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.

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

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