

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 8- EXAMINATION –WINTER - 2018

Subject Code: 2280003

Date: 19/11/2018

Subject Name: Pharmaceutical Chemistry – X (Medicinal Chemistry - III)

Time: 02:30 PM TO 05:30 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)	Give the method of synthesis of (i) Warfarin (ii) Metformin (iii) Carbimazole	06
	(b)	Write informative note on Anti platelet Agents	05
	(c)	What is obesity? Write a note on antiobesity drugs.	05
Q.2	(a)	Discuss the SAR among Cardiac glycosides.	06
	(b)	Write short note on immunomodulators.	05
	(c)	Give the method of synthesis of (i) Lignocaine (ii) Atenolol	05
Q.3	(a)	Give the method of synthesis of (i) Clofibrate (ii) Ethacrinic acid (iii) Glimipride	06
	(b)	Discuss the SAR among (i) Estrogens (ii) Dihydropyridines	05
	(c)	Write short notes on Thrombolytic agents.	05
Q.4	(a)	Define and classify Diuretic Agents. Discuss the SAR among Progestins and Androgens.	06
	(b)	Write detail note on Cardio tonic Agents.	05
	(c)	Write down notes on Coagulants and Anticoagulants.	05
Q.5	(a)	What are the causes of hypertension ? Write a note on β -blockers.	06
	(b)	Define and classify Hypoglycemic Agents.	05
	(c)	Give SAR of ACE inhibitors.	05
Q. 6	(a)	What is Diabetes ? Classify antidiabetics with examples and give their mechanism of action.	06
	(b)	Discuss the SAR among (i) Thiazide Diuretics (ii) 5- Sulfamoyl Benzoic acid derivatives.	05
	(c)	Discuss detail about Plasma expanders	05
Q.7	(a)	Explain in detail the nomenclature and stereochemistry of Steroidal Compounds.	06
	(b)	Discuss the SAR among HMG CoA Reductase inhibitors.	05
	(c)	Give the method of synthesis of (i) Acetazolamide (ii) Captopril	05
