

MCO-014-003804

Seat No. _____

M. P. M. (Sem. VIII) (CBCS) Examination

May / June - 2018

Pharmaceutical Chemistry - X

(Medicinal Chemistry - IV)

Faculty Code: 014

Subject Code: 003804

Time: 3 Hours [Total Marks: 80

Instructions: (1) Attempt three questions from each section.

- (2) Questions 1 and 5 are compulsory.
- (3) Figures to the right indicate full marks for the respective question.

SECTION-I

- 1 Answer the following questions : (Any **Seven**)
- 14
- (1) Give structure and IUPAC name of Metoprolol.
- (2) Explain term Lipoprotein and classify them.
- (3) Write synthesis of Clofibrate.
- (4) Give two examples of Calcium channel blockers with structure.
- (5) Write synthesis of Flecainide.
- (6) Define: Antiplatelet drugs. Give two examples of them.
- (7) Discuss SAR of Dihyropyridines.
- (8) Write synthesis of Isosorbidedinitrate.
- (9) Comment: Inhibitors of HMG-CoA reductase are contraindication in pregnancy.
- (10) Write synthesis of Warfarin.
- 2 (1) Discuss Sympatholytic antihypertensive drugs.

7

(2) Write a note on organic nitrates.

6

3	(1)	Write mechanism of action and SAR of HMG-CoA reductase inhibitors.	7
	(2)	Give detail classification of Diuratics with suitable examples. Discuss Loop diuretics in detail.	6
4	(1)	Discuss chemistry and SAR of Cardiac glycosides.	7
	(2)	Write a note on Anti-obese drugs.	6
		SECTION-II	
5	Ans	wer the following questions: (Any Two)	14
	(1)	Sketch out the process of blood clotting schematically and discuss on the intervention part of anticoagulants.	
	(2)	Write SAR of ACE inhibitors and synthesis of Captopril.	
	(3)	Classify antiarrhythmic agents. Discuss mechanism of action of each class.	
6	(1)	Explain in details about Immunomodulators.	7
	(2)	Synthesis of (a) Amlodipine (b) Dobutamine.	6
7	(1)	Explain SAR of Thiazide diuretics. Write down the synthesis of Hydrochlorthiazide.	7
	(2)	Write a note on Plasma expanders.	6
8	Ans	wer the following:	
	(1)	Explain in detail about the Diagnostic agents.	7
	(2)	Write an information note on Synthon approach.	6