



PAJ-014-003804

Seat No. _____

**M. P. M. (Sem. VIII) (W.E.F. 2014-15 & 2015-2016)
Examination**

August - 2020

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) Figure to the right indicates full marks for the respective question.

SECTION – I

1 Answer the following questions : (Any Seven) 14

- (1) What are thrombolytic agents?
- (2) Comment : Inhibitors of HMG-CoA reductase are contraindication in pregnancy.
- (3) Give the definition for Antiplatelet drugs with two examples of them.
- (4) Give two examples of Ca^{+2} channel blockers with structure.
- (5) Write synthesis of Warfarin.
- (6) Write synthesis of Clofibrate.
- (7) Discuss SAR of Dihydropyridines.
- (8) Write synthesis of Isosorbidedinitrate.
- (9) Synthesis of Dobutamine.
- (10) Give structure and IUPAC name of Metoprolol.

2	(1) Give SAR of HMG-CoA reductase inhibitors.	7
	(2) Write a note on anti-obesity drugs.	6
3	(1) Discuss chemistry and SAR of Cardiac glycosides.	7
	(2) Classify Diuretics with suitable examples. Discuss Loop diuretics in detail.	6
4	(1) Classify sympatholytic antihypertensive drugs with suitable structure.	7
	(2) Write a note on Anti-anginal drugs.	6

SECTION – II

5	Answer the following questions : (Any Two)	14
	(1) Explain in detail about anti-arryhythmic agents.	
	(2) Write SAR of ACE inhibitors.	
	(3) Write a note on Plasma expanders.	
6	(1) Explain in details about Immunomodulators.	7
	(2) Write a note on anti-platelet agents.	6
7	(1) Explain SAR of Thiazide diuretics and 5-sulfamoyl benzoic acid derivatives.	7
	(2) Sketch out the process of blood clotting schematically and discuss on the intervention part of anticoagulants.	6
8	Answer the following :	
	(1) Explain in detail about the Diagnostic agents.	7
	(2) Write an information note on Synthon approach.	6
