

## PAJ-1612030701080300 Seat No. \_\_\_\_\_

## M. P. M. (Sem. VIII) (W.E.F. 2016) Examination

**August - 2020** 

## Pharmaceutical Chemistry - IX

(Medicinal Chemistry - IV)

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**

- (l) Write synthesis of Warfarin.
- (2) Synthesis of Dobutamine.
- (3) Write synthesis of Clofibrate.
- (4) Give two examples of Ca<sup>+2</sup> channel blockers with structure.
- (5) What are thrombolytic agents?
- (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) Give structure and IUPAC name of Metoprolol.
- (1) Classify sympatholytic antihypertensive drugs
  with suitable structure.
  - (2) Write a note on Anti-anginal drugs.

3	(1)	Write mechanism of action and SAR of HMG-CoA	7
		reductase inhibitors.	
	(2)	Give detail classification of Diuretics with suitable	6
		examples. Discuss Loop diuretics in detail.	
4	(1)	Discuss chemistry and SAR of Cardiac glycosides.	7
	(2)	Write a note on drugs used as anti-obesity.	6
		SECTION - II	
5	Ans	swer the following questions: (Any Two)	14
	(1)	Write a note on Plasma expanders.	
	(2)	Write SAR of ACE inhibitors and synthesis of Captopril.	
	(3)	Classify anti-arryhythmic agents. Discuss mechanism of	
		action of each class.	
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	7
		benzoic acid derivatives.	
	(2)	Sketch out the process of blood clotting schematically	6
		and discuss on the intervention part of anticoagulants.	
8	Answer the following:		
	(1)	Explain in detail about the Diagnostic agents.	7
	(2)	Write an information note on Synthon approach.	6

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