



BBD-1612030701080300 Seat No. _____

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

June / July - 2021

Pharmaceutical Chemistry - IX

(Medicinal Chemistry-IV)

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Answer and tie up both the sections separately.
 - (2) Figure to the right indicates marks.
 - (3) Answer the three (03) questions from each section.
 - (4) Question one (01) and question five (05) are compulsory.
 - (5) Draw neat and clean diagrams as required.

SECTION - I

- 1** Answer the following : (Any Seven) **14**
- (1) Define coagulant with examples.
 - (2) Give structure and uses of captopril.
 - (3) Write synthesis of dobutamine.
 - (4) Write a brief note on nucleotidomimetics.
 - (5) Write synthesis and uses of clofibrate.
 - (6) Explain anticoagulant with examples.
 - (7) Write mechanism of action of acetazolamide.
 - (8) Explain mechanism of action and structure of hydralazine.
 - (9) Define thrombolytic agent with examples.
 - (10) Write synthesis and uses of diatrizoic acid.
- 2** Answer the following :
- (a) Define and classify antiarrhythmic agents. Explain **7**
mechanism of action of antiarrhythmic agents. Give
synthesis of lignocaine.

- (b) Write synthesis of following drugs : 6
- (1) Nifedipine
 - (2) Furosemide
 - (3) Aspirin
- 3** Answer the following :
- (a) Define and classify cardiotonic agents. Write a note on SAR and mechanism of action of cardiac glycosides. 7
 - (b) What is obesity? Write a note on antiobesity drugs. 6
- 4** Answer the following :
- (a) Define and classify diuretic. Describe SAR of 5-sulfamoyl benzoic acid derivatives. 7
 - (b) Explain in detail about Plasma expanders. 6

SECTION - II

- 5** Answer the following : (Any Two) 14
- (a) Classify antihyperlipidemic drugs. Explain SAR of HMG-CoA reductase inhibitors in brief.
 - (b) Write short note on
 - (a) Immunomodulator
 - (b) β -blockers as antihypertensive agents.
 - (c) Describe antiplatelet agents in detail.
- 6** Answer the following :
- (a) Write detail note on synthon approach. 7
 - (b) Define diagnostic agent. Write note on radiological contrast media. 6
- 7** Answer the following :
- (a) Describe SAR of thiazide diuretic. Write synthesis of hydrochlorthiazide. 7
 - (b) Write note on anti anginal agents. 6

- 8 Answer the following :
- (a) Classify antihypertensive agents with suitable examples. Explain SAR of ACE inhibitors. **7**
- (b) Write synthesis and uses of following drugs : **6**
- (1) Atenolol
- (2) Glyceryl trinitrate
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