

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Pharmaceutical Chemistry-VII (Medicinal Chemistry-IV)**Subject Code : 4PS07PCH1****Branch: B.Pharm****Semester: 7****Date: 23/11/2022****Time: 11:00 To 02:00****Marks: 70**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions: (14)

- a) Give any two examples of antiobesity drugs.
- b) Write structure of hydralazine.
- c) Give two drug names of calcium channel blockers.
- d) Give two drug names that act as coagulant.
- e) Give two drug names that act as β -blocker.
- f) Write structure of any one cardiotonic agent.
- g) Give structure of any one anticoagulant.
- h) Give structure of any one diuretic agent.
- i) What do you mean by molecular modeling?
- j) What do you mean by parallel synthesis?
- k) Heterocyclic ring that present in furosemide is furan. True/False?
- l) Heterocyclic ring that present in amlodipine is 1,4-dihydropyridine. True/False?
- m) Give full form of HMG CoA.
- n) Give full form of ACE.

Attempt any four questions from Q-2 to Q-8**Q-2 Attempt all questions (14)**

- A** Define and classify antihyperlipidemic agents with two drug names and one structure of each category. **07**
- B** Write a note on nitrates and nitrites as antianginal agents. **07**

Q-3 Attempt all questions (14)

- A** What do you mean by cardiotonic agents? Make an informative note on them. **07**
- B** Define and classify diuretics with two drug names and one structure of each category. **07**



- Q-4** **Attempt all questions** **(14)**
- A** **Give answer of the followings: (True/False)** **07**
- i) Urokinase is thrombolytic agent. True/False?
 - ii) Ethacrinic acid is diuretic agent. True/False?
 - iii) Aspirin is antiplatelet agent. True/False?
 - iv) Amrinone is cardiotoxic agent. True/False?
 - v) α -Methyl dopa is antihypertensive agent. True/False?
 - vi) Lignocaine is antiarrhythmic agent. True/False?
 - vii) Isosorbide dinitrate is antianginal agent. True/False?
- B** **Match the followings: (Drug- Category)** **07**
- | Drug | Category |
|------------------------------|-----------------------------------|
| a Prazocin | i Antiarrhythmic agent |
| b Dobutamine | ii Thrombolytic agent |
| c Flecainide | iii Antihypertensive agent |
| d Acetazolamide | iv Antianginal agent |
| e Glyceryl trinitrate | v Antihyperlipidemic agent |
| f Lovastatin | vi Diuretic |
| g Streptokinase | vii Cardiotoxic agent |
- Q-5** **Attempt all questions** **(14)**
- A** Write a note on antiplatelet agents. **07**
- B** Give a note on plasma expanders. **07**
- Q-6** **Attempt all questions** **(14)**
- A** Give SAR on Dihydropyridines. **09**
- B** **Give synthesis of: (Any three)** **05**
- i) Atenolol
 - ii) Nifedipine
 - iii) Warfarin
 - iv) Hydrochlorthiazide
 - v) Isosorbide dinitrate
- Q-7** **Attempt all questions** **(14)**
- A** Write an informative note on Hansch linear free energy relationship model. **07**
- B** What do you mean by lead? Write a note on optimization of lead. **07**
- Q-8** **Attempt all questions** **(14)**
- A** Write a detailed note on Computer Aided Drug Design. **07**
- B** Make a note on combinatorial chemistry. **07**

