

M.Pharm. F.Y. (Pharmaceutical Chemistry) (CBCS Pattern) Sem-I
MPC103T - Advanced Medicinal Chemistry

P. Pages : 1

Time : Three Hours



GUG/W/22/14164

Max. Marks : 75

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- Notes :
1. Diagrams and Chemical equation should be given wherever necessary.
 2. Illustrate your answers wherever necessary with the help of neat sketches.
 3. All questions are compulsory.

- 1. Elaborate on :** **2x20**
=40
- a) Explain in detail various strategies utilized in analog design.
 - b) Briefly explain the medicinal chemistry aspects of antihypertensive agents with special emphasis to classification, mechanism of action, structure and synthesis of any one drug from each class.
 - c) Discuss in detail the types of receptors and various forces involved in drug receptor interactions.
- 2. Discuss on :** **1x15**
=15
1.
 - a) Briefly account on molecular mechanics in molecular modeling.
 - b) Write a note on steric factors in a QSAR study.
 2.
 - a) Write a brief note on pharmacophore models.
 - b) Briefly explain the manufacture of Paracetamol.
- 3. Write notes on :** **4x5**
=20
- a) Describe in detail about the biosynthesis of prostaglandins.
 - b) Outline various approaches in prodrug design.
 - c) Write a note on antineoplastic antimetabolites.
 - d) Describe various theories involved in drug receptor interactions.
 - e) Outline the aspects of enantioselectivity in drug absorption and elimination.
 - f) Briefly explain with examples on noncovalent enzyme inhibitors.
