

M.Sc. Semester - 4 (CBCS) Examination

May/June-2021 (OLD COURSE)

ADVANCED MEDICINAL CHEMISTRY(ELECTIVE - 1)

Time: 1:30 Hours

Marks: 42

Instructions:

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

-
- Que-1(A) **Answer The Following Questions.** (04)
A. Define the given terms: agonist and antagonist.
B. Explain Pharmacokinetics and pharmacodynamics.
- Que-1(B) **Answer The Following Questions. (Any Two)** (10)
A. Discuss various applications of combinatorial chemistry.
B. What is intellectual property rights? Explain its need and promotion.
C. Discuss the chemical pathway of drug biotransformation.
- Que-2(A) **Answer The Following Questions.** (04)
A. What is Patent? Explain with Example.
B. Define absorption of drug with suitable graph.
- Que-2(B) **Answer The Following Questions. (Any Two)** (10)
A. Discuss characteristics of an ideal Pro-drug with suitable example.
B. How Wilson model is differs from Hansch model? Discuss with their advantages and limitations.
C. Give Roche synthesis of Epoxide.
- Que-3(A) **Answer The Following Questions.** (04)
A. Why water and n-octanol are accepted as standard system for determining the partition coefficient?
B. Define the terms: SAR and QSAR.
- Que-3(B) **Answer The Following Questions. (Any Two)** (10)
A. Discuss different methods of preparation of combinational libraries.
B. Explain molecular hybridization in drug design.
C. Explain in detail Passive diffusion in drug adsorption.
- Que-4(A) **Answer The Following Questions.** (04)
A. What is lead compound? How they are Identify?
B. Discuss the term Copyright with examples.
- Que-4(B) **Answer The Following Questions. (Any Two)** (10)
A. What is polymorphism? Explain polymorphism, hydrates and salt form play a role in absorption of drugs.
B. How the chemical structure of active molecules is find out in combinational chemistry? Explain in details.
C. Briefly discuss Phase-I reactions.
- Que-5(A) **Answer The Following Questions.** (04)
A. Explain chiral drug with suitable examples.
B. What is Trademark? Give any two examples.
- Que-5(B) **Answer The Following Questions. (Any Two)** (10)
A. Discuss Coreys asymmetric synthesis of (S) – cetirizine dihydrochloride.
B. Briefly derive Phase-II reactions with examples.
C. What is drug design? Explain the fundamental types of drug design.
