

M.Sc. Semester - 4 (CBCS) Examination
August/September -2020 [OLD COURSE]
ADVANCED MEDICINAL CHEMISTRY (ELECTIVE - 1)

Time: 2:00 Hours**Marks: 56****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any four of the following questions.
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Q.1 Answer any seven of the following ten questions.**[14 Marks]**

1. What is bioisosterism.
2. What is hard drug and soft drug?
3. Enlist different type of receptors.
4. Explain Excretion of Drug.
5. Define activity and Potency
6. Enlist the mechanism of drug absorption.
7. What is Pseudo polymorphism?
8. Define the term IPR.
9. Explain Chiral drug with suitable example.
10. What is Craig's Plot?

Q.2 Answer any two of the following three questions.**[14 Marks]**

1. How to increase potency of the lead compound by functional group modification.
2. Discuss the lead discovery through Clinical observations.
3. Explain the discovery of Penicillins.

Q.3 Answer the following questions.**[14 Marks]**

1. How to increase potency of the lead compound by functional group modification.
2. What is Trademark? Differentiate trade mark and trade secret?
3. Explain passive diffusion in drug absorption.

OR

Q.3 Answer the following questions.**[14 Marks]**

1. Draw the flow chart and stepwise diagram of drug discovery processes.
2. Define the pharmacophore and auxophore. Identify pharmacophoric and auxophoric groups in Morphine structure.
3. Write a note on polymorphism and amorphism.

Q.4 Answer any two of the following three questions.**[14 Marks]**

1. Discuss the electronic effects in QSAR studies.
2. Explain Phase-I reactions in biotransformation process.
3. Explain in detail: Ion-channel linked receptors.

Q.5 Answer any two of the following four questions.**[14 Marks]**

1. What types of invention can be patented?
2. Write a note on Furka's mix and spit method.
3. Write the synthesis of S-Cetirizine Di-hydrochloride
4. Explain Tea-Bag method to prepare combinatorial library with suitable example.
