Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.–6)

MEDICINAL CHEMISTRY/MEDICINAL CHEMISTRY-I/PHARMACEUTICAL CHEMISTRY-VI

Subject Code : PHM-361

M.Code : 46149

Time : 3 Hrs. Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.**

SECTION-A

1. Write briefly :

a) Give example of any one drug exhibiting primary drug receptor interactions.

b) Give the importance of chelation in biological action.

c) Give the structure of any two second generation histaminic receptor antagonists.

d) Define the term "Lead".

e) Write down the mechanism of action and uses of isoflorophate.

f) Give any two therapeutic uses of Prostaglandins.

g) What is partition coefficient?

h) Give the structure and moa of isoprenaline.

i) Write down the structure of any two metabolites of adrenaline.

j) Give moa and therapeutic uses of Apomorphine.

k) What are isosteres? Give examples.

l) What are anti-Parkinsonism agents?

m) Give an example of drug exhibiting geometrical isomerism.

n) Write the mechanism of action of antiulcer agents.

o) Write down structure of any one arylpropionic acid derivative acting as NSAID.

SECTION-B

Q2 Give in detail the biosynthesis of Noradrenaline.

Q3 Write down a short note on fat soluble vitamins.

Q4 Explain with examples the effect of optical isomerism on biological activity of the drug.

Q5 Give moa, and synthesis of Chlorpheniramine.

Q6 Discuss the detailed chemistry of Eicosanoids.

SECTION-C

Q7 Classify NSAIDs with examples. Explain in detail the chemistry of any one class.

Q8 Discuss in detail various drug receptor interactions required for the affinity of drug.

Q9 Write short notes on :

a) NM Blockers

b) Lead optimisation

Q10 Write down the moa, therapeutic uses and give various steps involved in the synthesis of following drugs :

a) Salbutamol

b) Indomethacin

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.