

Total Pages : 4

H-BP-402

B. Pharma (Semester-IV) Examination, 2022

CHEMISTRY

(Medicinal Chemistry-I)

Time Allowed : Three Hours

Maximum Marks : 75

Minimum Passing Marks : 28

Note : Answer from all the sections as per given instructions in each section.

SECTION-A

(Very Short Answer Type Questions)

Note : Attempt **all** questions. Each question carries **2** marks.

[10x2=20]

1. Define Partition Coefficient.
2. Give two examples of general anaesthetics.
3. What is Protein Binding ?
4. What is Optical Isomerism ? Name its types.
5. Define Solubility.
6. Give the structure and uses of diazepam.
7. Give the structure and uses of phenytoin.
8. Define Sedative and Hypnotics.
9. What is Bioisosterism ?
10. Name the cholinergic receptors.

SECTION-B

(Short Answer Type Questions)

Note : Attempt **any seven** questions. Each question carries **5** marks. [7x5=35]

1. Give the synthesis, SAR and uses of Ibuprofen.
2. Explain the factors affecting drug metabolism.

3. Write exhaustive note on ultra short acting barbiturates.
4. Give the synthesis, MoA and uses of Dicyclomine HCl.
5. Write the classification and SAR of alpha adrenergic blockers.
6. Discuss adrenergic receptors with their distribution.
7. Discuss the physico-chemical properties of drugs in relation to biological activity with example.
8. Give the synthesis, SAR and uses of salbutamol.
9. Give the structure, MoA and uses of Ketamine HCl.

SECTION-C

(Long Answer Type Questions)

Note : Attempt **any two** questions. Each question carries **10** marks. [10x2=20]

1. Classify cholinergic drugs with example. Give the biosynthesis, SAR and catabolism of acetylcholine.
2. What are anticonvulsants ? Classify them with example. Discuss the synthesis and SAR of Ethosuximide.

3. Classify anti-psychotic drugs with example. Give the MoA, synthesis and SAR of phenothiazines.

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