

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
(2125)

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B. Pharmacy 5th Semester Examination
Medicinal Chemistry (NS)
BP-352

Time : 3 Hours

Max. Marks : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt any two questions from Part A. Attempt any eight questions from Part B. Attempt all questions from Part C.

PART - A

Attempt any two questions:

1. What do you understand by drug metabolism? How many types of metabolic reactions are there? Discuss in detail. (10)
2. (a) Classify cholinergic drugs. Give their uses & mechanism of action (MOA). (3)
(b) Classify sedatives & hypnotics. Give detailed SAR of sedatives along with MOA of these drugs. (7)
3. Discuss the Hausch approach to QSAR in detail. (10)

PART - B

Attempt any eight questions of the following:

4. Discuss various physicochemical aspects of drug molecules & biological action. (5)
5. Discuss briefly about Drug-Receptor interactions. (5)

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6. Discuss lipophilic & steric descriptors on QSAR. (5)
7. Discuss the concept of prodrugs. Give its applications in medicinal chemistry. (5)
8. Write a note on drug design & development. (5)
9. Write the MOA of antiparkinsonian drugs. (5)
10. What are antispasmodic drugs? Give their MOA. (5)
11. Write a note on neuromuscular blocking agents with examples. (5)
12. Classify general anaesthetics in detail. (5)
13. Discuss briefly about different types of receptors. (5)

PART - C

Attempt the following:

14. Discuss the advantages of CADD in medicinal chemistry. (2)
15. Give the synthesis of phenytoin. (2)
16. Write synthesis of salbutamol. (2)
17. Discuss the structures of receptors. (2)
18. Give synthesis of any one anxiolytic drug. (2)