[Total No. of Questions - 18] [Total No. of nted Pages - 2]
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B. Pharmacy 5th Semester Examination

Medicinal Chemistry-I (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.

SECTION - A
(Attempt any two questions)

1. How physicochemical properties are related to biological action? Write a detailed note on bioisosterism.
2. What are different forces involved in drug receptor interaction? Describe transduction mechanisms in detail.
3. Classify anticonvulsants with suitable examples. Discuss mechanism of action and structure activity relationship of barbiturates and benzodiazepines. (10×2=20)

SECTION - B
(Attempt any eight questions)

4. Write a note on different softwares used in molecular modeling.
5. Give synthesis and mechanism of action of lignocaine.
6. Write SAR of any one chemical category belonging to CNS stimulants.
7. What do you understand from carrier linked and bioprecursor prodrugs? Discuss in detail with examples.
8. Enumerate Hansch and Free Wilson approaches.

9. Classify antidepressants with suitable examples.
10. Give mechanism of action and synthesis of Atropine.
11. Write mechanism of action of Levodopa and also mention, why carbidopa is given in combination with levodopa.
12. Discuss briefly about electronic, steric and topological descriptors used in QSAR.
13. Discuss phase-II biotransformations in detail with a special comment on glueuronidation pathway. (5×8=40)

SECTION - C
(Attempt all questions)

14. Define analeptics and neuroleptics.
15. Write the name of any two non-depolarising blockers.
16. What are mutual prodrugs? Give any one example.
17. What is the statement of Easson-Stedemann Hypothesis.
18. Name any two opioid receptor antagonists. (2×5=10)