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Total No. of Pages : 02

Total No. of Questions : 18

Pharm. D (Sem.-3)
MEDICINAL CHEMISTRY
Subject Code : 3.5
Paper ID : [A2568]

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTION TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- Q1 Write the equation of Free-Wilson QSAR model.
- Q2 Sulphonamides are prodrugs. Justify.
- Q3 Draw structures and give chemical name of two urinary anti-infective.
- Q4 Draw structure of two potent thyroid hormones.
- Q5 Define anti-peptidic with one structural example.
- Q6 Define anticoagulant with one structural example.
- Q7 What is contrast media?

SECTION-B

- Q8 What is CADD technique? Describe its advantages and disadvantages.
- Q9 What is combinatorial synthesis? Describe its advantages and disadvantages.
- Q10 Give critical account of the SAR and stereochemistry of Chloramphenicol.

- Q11 Write a note on azoles used in fungal infection.
- Q12 Write the SAR of Carbonic anhydrase inhibitors for diuretic activity.
- Q13 Write a brief account of First-generation sulphonylureas as oral hypoglycaemic agents.
- Q14 Classify anti-thyroid drugs. Write the synthesis and uses of methylthiouracil.
- Q15 Write a note on benzimidazole derived anthelmintics.

SECTION-C

- Q16 Write in detail about antiarrhythmic agents used as cardiovascular drugs. Support your answer with suitable examples.
- Q17 Classify the antiviral drugs on the basis of their mode of action. Draw the structure, chemical name, and uses of at least one potent drug from each category.
- Q18 How will you classify the synthetic antimalarials based on their basic chemical nucleus? Give one structural example each class. Write the SAR of 4-amino quinolines.