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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. Attempt any SIX
2. SECTION-B contain EIGHT questions (Short Essay Type). 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.