

Time: 3 Hours

Max. Marks: 70 Marks

MEDICINAL CHEMISTRY - II

(RS - 4)

QP Code: 2644

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 X 10 = 20 Marks

1. Define antibiotics? Write a note on β lactamase inhibitors. Explain the SAR & Mechanism of action of tetracyclines
2. Classify antihypertensive agents? Write a note on Antianginal agents? Give the structure and uses of any two nitro vasodilators.
3. What are anti arrhythmic drugs? Classify them with examples. Write structure and uses of verapamil, phenytoin and propranolol.

SHORT ESSAYS (Answer any Six)

6 X 5 = 30 Marks

4. What are antitubercular agents? Write short notes on combination therapy for tuberculosis.
5. Give the examples of substituted Imidazoles as antifungal agents? Give the synthesis of Miconazole.
6. Classify sulfonamides based on site of action? Give the synthesis of Trimethoprim.
7. Give the mechanism and synthesis of chloroquine phosphate.
8. What are anticancer drug? Give the mechanism of action of alkylating agents.
9. Write any two structure and uses of the following.
i) Calcium channel blocker ii) Antihyperlipidemic agents
10. Discuss the chemistry of quinolines. Write the synthesis of Nitrofurantoin.
11. Write synthesis of chlorambucil and methotrexate.

SHORT ANSWERS

10 X 2 = 20 Marks

12. Mention the steric parameters used in QSAR.
13. Give the structures of two carrier linked prodrugs.
14. Write are anthelmintics? Give examples.
15. What are antiprotozoal agents? Give the structure of carbasone.
16. Give source, structure and uses of quinine.
17. Write the structure and uses of α_1 antagonist.
18. Define hypoglycemia. Name any two sulfonyl urea derivatives.
19. Give the structure of any two antithyroid drugs.
20. Structure and uses of Acetazolamide
21. Mechanism of action of thiazide diuretics

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