

Time: 3 Hours

[Max. Marks: 80]

Medicinal Chemistry - II (RS2)**QP Code : 1969**

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any two)**2 X 10 = 20 Marks**

1. Enumerate anti-tubercular drugs with suitable examples. Outline the synthesis of Ethambutol, Isoniazid & Clofazamine
2. Write a note on degradation of penicillin and give the chemistry and synthesis of chloramphenicol.
3. Classify diuretics with examples. Give their clinical significance and mechanism of action of each class. Outline the synthesis of Acetazolamide.

SHORT ESSAY (Answer any eight)**8X 5 = 40 Marks**

4. Classify sulphonamides with suitable examples. Explain the SAR among antibacterial sulphonamides. Give the synthesis of sulfisoxazole.
5. Outline the synthesis of Dapsone and Trimethoprim.
6. Discuss the mechanism of action of alkylating agents. Write the structures of any two drugs.
7. Write a note on Antiprotozoal agents. Outline the synthesis of metronidazole.
8. Discuss the SAR of tetracyclines.
9. Write a note on penicillinase resistant penicillins & Beta lactamase inhibitors.
10. Explain with suitable examples (i) Anthelmintics and (ii) Antiviral agents
11. Write the examples of hypoglycemic sulfonylureas and mention their specific uses. Give the synthesis of tolazamide.
12. Classify preservatives with suitable examples and give the synthesis of Chlorobutanol.
13. What are anti thyroid drugs? Name any two anti thyroid drugs and give their structures.

SHORT ANSWERS**10 X 2 = 20 Marks**

14. Outline the mechanism of action of HMG CoA reductase inhibitors
15. Name any two polypeptide antibiotics and give their uses.
16. List out important antimalarial agents. Give the structure and use of any one antimalarial drug from natural source.
17. Give the synthesis of Warfarin
18. Give the synthesis of Gentian Violet.
19. What are ACE inhibitors? Give two examples with structure.
20. Explain the synergistic action of Amoxycillin and Clavulanic acid.
21. Write short notes on Lincomycins
22. Write briefly on potassium sparing diuretics.
23. Outline the synthesis of Mebendazole.

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