

Time: 3 Hours

[Max. marks : 70]

Medicinal Chemistry II

(Revised Scheme – 3)

QP Code: 2619

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. Classify antifungal agents with suitable examples. Give the structure of any one antifungal antibiotic and outline the synthesis of tolnaftate.
2. What are beta lactam antibiotics? Give the degradation products of penicillin. Write a note on betalactamase inhibitors.
3. Classify antihypertensive agents. Explain the following with suitable examples.
 a) Calcium channels and their blockers b) Beta blockers

SHORT ESSAY (Answer any six)
6 X 5 = 30 Marks

4. What is crystalluria? Enumerate the methods to overcome it.
5. Add a note on folate reductase inhibitors. Explain the synergistic action of sulphamethoxazole and trimethoprim.
6. Explain with suitable examples a) Halogen containing antiinfectives b) Dyes used as local antiinfective agents
7. Write a note on combinatorial chemistry and prodrug concept in drug discovery.
8. Write a note on antitubercular antibiotics.
9. Define and classify antimalarial agents. Outline the synthesis of Pamaquine and Pyrimethamine.
10. Discuss the stability and SAR of tetracyclines.
11. Describe the chemistry and the synthesis of Chloramphenicol.

SHORT ANSWERS
10 X 2 = 20 Marks

12. Give the synthesis of diethyl carbamazine.
13. Give the synthesis of furosemide.
14. Write a note on plant products used in the treatment of cancer.
15. Write briefly on potassium sparing diuretics.
16. What are antiprotozoal agents? Give the structure and use of carbarzone.
17. Write the structure and use of erythromycin.
18. What are anticoagulants? Give the synthesis of warfarin.
19. Name any two antithyroid drugs and give their structures.
20. Write the structure of any two quinolone antibacterials and give their uses.
21. List out important antiviral agent's. Give the structure and use of any one antiviral drug.

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