

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 diuretics with examples. Give the mechanism of action of loop diuretics. Write the synthesis of ethacrynic acid and furosemide.
2. Classify antimalarials with example. Give their mechanism of action. Write synthesis of trimethoprim and pamaquine.
3. Classify local anti infective agents with examples. Explain the synthesis of Furazolidone.

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

4. Classify antitubercular agents with examples. Write the synthesis of p-aminosalicylic acid and ethambutol.
5. Write a note on calcium channel blockers.
6. Write the SAR of quinolones.
7. Write a note on CADD and combitorial chemistry.
8. Classify antiarrhythmic agents with example. Write the synthesis of warfarin
9. Write a note on prodrug.
10. Classify antihypertensive agents and give the synthesis of chlorpropamide.
11. Classify antineoplastic agents. Explain the mechanism of action of Chlorambucil

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

12. Write the synthesis of diethyl carbamazine.
13. Write the synthesis of thiabendazole.
14. Write the structure and use of cycloserine and diloxanide furoate.
15. Write the structure and use of thienamycin and chloramphenicol.
16. Write the structure and use of macrolide antibiotic.
17. Write the synthesis of metronidazole.
18. Outline the synthesis of Tolnaftate
19. Mention two examples of plant products used as antineoplastic agents.
20. Write the structure of any two cephalosporin antibiotics.
21. Write the structure and use of L-thyroxine and methimazole.

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