

B. Pharmacy 7th Semester Examination

Medicinal Chemistry-III (NS)

BP-471

Time : 3 Hours

Max. Marks : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Question paper has three sections. Attempt all sections.

SECTION - A

Note: Attempt *any two* questions.

1. Explain thyrotoxicosis. Classify anti-thyroid drugs with examples and mention synthesis and mechanism of action of propylthiouracil.
2. Why cancer chemotherapy is more difficult than bacterial chemotherapy? Explain. Discuss mechanism of action, uses and SAR of alkylating agents.
3. Classify chemotherapeutic agents used in the treatment of malaria parasite. Discuss mechanism of action and SAR of aminoquinoline class of antimalarial agents. (10×2=20)

SECTION - B

Note: Attempt *any eight* questions.

4. Classify anti-asthmatic drugs and give the synthesis, mechanism of action and uses of salbutamol.
5. What do you understand from emesis? Discuss synthesis and mode of action of any one antiemetic agent.

6. Classify anti-HIV agents and describe in detail about protease inhibitors.
7. Discuss synthesis and uses of metronidazole and pyrimethamine.
8. Write a descriptive note on anticancer antibiotics.
9. Shortly comment on radiographic contrast media.
10. Write a note on semi-synthetic penicillins.
11. Discuss SAR and uses of H₂ antagonists.
12. Briefly describe immunomodulators.
13. Write a short note on antioxidants. (5×8=40)

SECTION - C

Note: Compulsory questions.

14. Write the name of most commonly used sulfa drugs in burns and ophthalmic preparations.
15. Give the example of any two dyes used for diagnostic purposes.
16. What is difference between expectorant and anti-tussives?
17. What are luminal anti-amoebics?
18. Define nucleotidomimetics. (2×5=10)