

QP CODE: 26019362



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc PHARMACEUTICAL CHEMISTRY

ELECTIVE - CH860403 - MEDICINAL CHEMISTRY

2019 Admission Onwards

EAAFDB49

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What are neurone blockers? Give examples.
2. Why carbachol is used instead of acetylcholine?
3. Give the synthesis of verapamil.
4. Draw the structure of sulphanilamide and write its uses.
5. Write the name and structures of two drugs used for the treatment of tuberculosis.
6. Write a note on antimalarial drugs. Give examples.
7. Write a note on anthelmintic drugs. Give examples.
8. Discuss the chemistry of LSDs.
9. How are expectorants classified? Give one example each.
10. Why are PPIs better at treating GERD than H₂ blockers?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Discuss the chemistry of neostigmine and physostigmine in relation to their cholinesterase inhibition activity.





12. Compare the structure and pharmacology of digoxin and digitoxin.
13. Differentiate between β -blockers and calcium channel blockers with examples.
14. Write a note on the structure and uses of 5-flucytosine.
15. Briefly explain anti-influenza agents with suitable examples.
16. Define and classify tranquilizers with suitable examples.
17. How are antidepressants classified? Explain with examples.
18. Explain the biological role of histamine in the body.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Write an essay on the mechanism of action of imidazole derivative drugs and its use as topical decongestants.
20. (a) Write note on cephalosporins and macrolide antibiotics.
(b) Explain the structure, synthesis and uses of ampicillin and chloramphenicol.
21. (a) Give an account of antineoplastic drugs.
(b) Outline the synthesis of the following drugs: (i) Chlorambucil; (ii) Carmustin; (iii) Thiotepa; (iv) 5-Fluoro uracil.
22. (a) How do you classify oral hypoglycemic drugs?
(b) Describe their mode of action (c) Outline the synthesis of tolbutamide.

(2×5=10 weightage)

