

QP CODE: 21000918



Reg No : .....

Name : .....

**M Sc DEGREE (CSS) EXAMINATION, JULY 2021**

**Fourth Semester**

Faculty of Science

M Sc PHARMACEUTICAL CHEMISTRY

**Elective - CH860403 - MEDICINAL CHEMISTRY**

2019 Admission Onwards

2237BAAB

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. Describe the muscarinic and nicotinic actions of organophosphates.
3. What is atherosclerosis?
4. What are the requirements for a substance to be classified as an antibiotic?
5. What is sulphamethoxazole? Give its use.
6. What are first line anti-tubercular agents? Give an example.
7. What is zidovudine? Give its therapeutic uses.
8. Draw the general structure of phenothiazine derivatives classified under typical antipsychotic agents.
9. Describe the different types of histamine receptors in the body and its therapeutic significance.
10. What are the different types of irritant purgatives?

(8×1=8 weightage)





### Part B (Short Essay/Problems)

Answer any **six** questions.

Weight 2 each.

11. Write the structure and uses of any three directly acting cholinergic agonists. How they are different from cholinesterase inhibitors?
12. Compare the structure and pharmacology of digoxin and digitoxin.
13. Sketch the cardiac action potential and explain the classification of antiarrhythmic drugs.
14. Explain the structure, synthesis and uses of clotrimazole.
15. Outline the synthesis and uses of the drug mebendazole.
16. Write short notes on: (i) Oxazepam (ii) Rauwolfia alkaloids.
17. State different adverse effect of hallucinogenic drugs.
18. Give the key structural features of opium alkaloids that leads to antitussive activity? Give one example.

(6×2=12 weightage)

### Part C (Essay Type Questions)

Answer any **two** questions.

Weight 5 each.

19. Give an account on different types of adrenergic stimulants.
20. Give an account of antiprotozoal agents giving category, structure and properties.
21. (a) Write a note on antineoplastic drugs. (b) Describe the structure, synthesis and uses of the following drugs: (i) Chlorambucil; (ii) Carmustin; (iii) Thiotepa; (iv) 5-Fluoro uracil.
22. (a) Define Diuretics and classify diuretics. (b) Explain the various sites of action of diuretics in Nephron with an example. (c) Mention the therapeutic uses of loop diuretics and give the synthesis of furosemide

(2×5=10 weightage)

