

Rajiv Gandhi University of Health Sciences

IV Year B.Pharm Degree Examination - JAN-2019

Time: 3 Hours

[Max. marks : 70]

Medicinal Chemistry - II **(RS - 4)** **QP Code: 2644**

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAYS (Answer any Two)

2 X 10 = 20 Marks

1. What are antibiotics? Discuss the SAR & MOA of tetracyclines.
2. Classify antihypertensive agents? Write the MOA of calcium channels blockers & beta blockers with example.
3. Classify cephalosporins with examples. Write the structure and uses any two cephalosporins.

SHORT ESSAYS (Answer any Six)

6 X 5 = 30 Marks

4. What are anthelmintics? Write the synthesis of thiabendazole and albendazole.
5. What are antifungal antibiotics? Explain their mechanism of action.
6. Give the mechanism of action of sulphonamides. Write the structure and uses of Phthalyl sulphathiazole and sulphadiazine.
7. What are anti-malarial drugs? Explain the life cycle of malaria.
8. Discuss the mechanism of action of mercaptopurine and busulfan.
9. Define angina pectoris? Write the MOA of Antianginal agents? Write the structure and uses of nitroglycerine.
10. Classify the alkylating agents with examples. Outline the synthesis of chlorambucil.
11. What are antiviral drugs? Classify them with examples.

SHORT ANSWERS

10 X 2 = 20 Marks

12. Write the structure of one prodrug and its active metabolites.
13. Mention the steric parameters used in QSAR.
14. Give the structure and uses of ciprofloxacin.
15. What are antiviral agents? Give any two examples.
16. Name any two sulfonamides used in the treatment of burn therapy.
17. What are calcium channel blockers? Give examples.
18. Name any two biguanides used in the treatment of hyperglycemia.
19. Give examples for synthetic estrogens.
20. Write the structure and uses of spironolactone.
21. Mechanism of Acetazolamide

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