

Supply

Rajiv Gandhi University of Health Sciences, Karnataka
III Year Pharm-D Degree Examination – 12-May-2025

Time: Three Hours

Max. Marks: 70

MEDICINAL CHEMISTRY (RS & RS-2)

Q.P. CODE: 2865

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. Classify sulphonamides; gives SAR and add a note on Folate reductase inhibitors
2. Define antibiotic. Classify with suitable examples. Give the degradation products of penicillins
3. a) What are antineoplastic agents? Discuss the mechanism of action of alkylating agents
b) Discuss the MOA, structure and uses of Mercaptopurine

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

4. Write a note on prodrug
5. Classify calcium channel blockers and give structure and uses of Verapamil and Nifedipine
6. Discuss the MOA of Acetazolamide and Benzthiazide
7. What are antiviral drugs? Classify them with suitable examples
8. Name any four antiamoebic agents? Give the synthesis of Metronidazole
9. Write a short note on antifungal antibiotics
10. Write the SAR of quinoline analogues of antimalarials
11. Write the structure and uses of p-amino salicylic acid, Isoniazid, Ethambutol and Pyrazinamide

SHORT ANSWERS

10 x 2 = 20 Marks

12. Name any two preservatives
13. What are cationic surfactants?
14. Name any two anticoagulants with their mechanism of action
15. Applications of QSAR
16. Name any two β - lactamase inhibitors
17. Outline the synthesis of Isoniazid
18. What are diagnostic agents? Classify them with examples
19. Write the structure and uses of Estrogen and Progesterone
20. Write the structure and uses of Ciprofloxacin
21. Define hypoglycemia. Name any two sulfonyl urea derivatives
