

# Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharma-D Degree Examination – Mar 2013

Time: Three Hours

Max. Marks: 70 Marks

## MEDICINAL CHEMISTRY

**Q.P. CODE: 2865**

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

### LONG ESSAYS

**2 x 10 = 20 Marks**

1. Write a note on quinolones. Discuss structure activity relationships of quinolones and give the synthesis of ciprofloxacin.
2. Discuss in detail anti-tubercular agents including classification and mechanism of action. Give the synthesis of any one anti-tubercular drug.
3. Discuss prodrugs in detail with examples. Add a brief note on antisense molecules.

### SHORT ESSAYS

**6 x 5 = 30 Marks**

4. Write a note on antifungal antibiotics.
5. Define and classify antiviral agents with examples.
6. Give a brief note on computer aided drug design.
7. Give an account of diagnostic agents.
8. Write short notes on non-steroidal hormones.
9. Give synthesis of any two antiprotozoal drugs.
10. Write a note on antimetabolites used in cancer treatment.
11. Classify antihypertensive agents with examples. Write the synthesis of hydralazine.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

12. Give the structure and uses of phenindione.
13. Name two antihyperlipidemic agents with their chemical structure.
14. Structure and uses of acetoazolamide
15. Write the structure and uses of mebendazole.
16. Name two short acting sulfonamides with structures.
17. Structure and uses of primaquine
18. Define Anticoagulants with one example.
19. Structure and uses of any one cephalosporins.
20. Properties of ideal preservative
21. Applications of QSAR

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