

# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – Mar 2013

Time: Three Hours

Max. Marks: 80 Marks

## MEDICINAL CHEMISTRY - II

(Revised Scheme - 2)

**Q.P. CODE: 1969**

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 antibiotics with suitable examples. Write the structure, mechanism of action and therapeutic uses of (a) Streptomycin (b) Cefixime.
2. Give the synthesis, SAR and mechanism of action of (a) Nefidipine (b) Captopril.
3. Write notes on (a) Thiazides (b) Coumarins.

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

4. Explain the concept of Prodrug.
5. Write notes on antifungal antibiotics.
6. Give the structure and therapeutic uses of Acyclovir and Zidovudine.
7. Write briefly on Quinolones antibacterial
8. Explain Folate reductase inhibitors.
9. Classify anti malarials with examples. Outline the synthesis of chloroquine.
10. Write notes on synthetic anti tubercular agents.
11. Outline the synthesis of metronidazole and diethyl carbamazine.
12. Explain potassium sparing Diuretics.
13. Discuss the concept of antimetabolites in cancer treatment.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

14. What are Preservatives?
15. Write the mechanism of action of Ketoconazole.
16. Mention the drugs used for treatment of Leprosy. Write the significance of Multiple drug treatment in Leprosy.
17. Explain the synergistic action of sulpha drugs with an example.
18. Give the mechanism of action and uses of Acetazolamide.
19. Give the structure and uses of Trimethoprim.
20. Write the mechanism of action of alkylating agents.
21. Write the structure and uses of clofibrate.
22. Mention thyroid hormones and their uses.
23. What are arrhythmias? Mention the drugs used for treatment of arrhythmias.

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