

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.Pharm Degree Examination - Aug / Sep 2011

Time: Three Hours**Max. Marks: 70 Marks**

MEDICINAL CHEMISTRY - II
(Revised Scheme – 3)

Q.P. CODE: 2619

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 anti-tubercular drugs with examples. Discuss the SAR of anti-tubercular drugs. Give the synthesis of Isoniazid and ethambutol.
2. What are antineoplastic agents? Classify them with examples. Give the structure, Mechanism of action and therapeutic uses of Chlorambucil and 5-Fluorouracil.
3. What are diuretics? Classify them with examples. Explain the following with suitable examples
(a) Loop diuretics (b) Carbonic anhydrase inhibitors.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Write a note on anti-thyroid drugs.
5. Name four Anti Viral agents. Give structure uses of Zidovudine and Amantidine.
6. Discuss the SAR of Sulfonamides.
7. Explain with suitable example (a) Cationic Surfactant (b) Dyes as anti infectives.
8. Outline the synthesis of Pyrimethamine and Dapsone.
9. Write a note on antifungal antibiotics.
10. Give the mechanism of action of Sulfonamides. Write structure and uses of phthalyl Sulfathiazole and Sulfadiazine.
11. Write a note on Macrolide antibiotics.

SHORT ANSWERS**10 x 2 = 20 Marks**

12. Write the structure and uses of Pefloxacin.
13. Give the synthesis of Metronidazole.
14. What is prodrug? Give an example.
15. Write a note on Taxol.
16. Define Anthelmintics, give examples.
17. What are vasodilators, give examples.
18. Give Structure and Uses of Mefloquine.
19. Write a note on Hormones as anticancer agents.
20. Write uses of clofibrate and Captopril.
21. Write a note on Methyl paraben.
