

Rajiv Gandhi University of Health Sciences, Karnataka

Fourth year B.Pharm Degree Examination - August 2010

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 antineoplastic agents with one example for each class. Outline the chemistry and mode of action of cyclophosphamide and mercaptopurine. Give the synthesis of cyclophosphamide
2. Name the different classes of Diuretics and give one example for each class. Define high ceiling diuretics and potassium sparing diuretics. Give the synthesis of furosemide and ethacrynic acid
3. Write the structures and uses of three drugs each from cephalosporins and tetracyclines. Discuss in detail SAR of tetracyclines

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

4. Give an account of antihyperlipidemic agents including their structures and specific uses
5. Write a note on combinatorial chemistry and its applications
6. What are sulphonamides? Explain their SAR
7. Classify antifungals. Give the synthesis of tolnaftate
8. Discuss chemical degradation of penicillin
9. Name any four anthelmintic drugs and give the synthesis of thiabendazole
10. Give the chemical name, structure and specific uses of Isosorbide dinitrite, Amylnitrite and Nitroglycerine
11. Write briefly on synthetic antitubercular agents outline the synthesis of any one

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

12. Give the structures of any two dyes used as local antiinfective agents
13. Define Prodrug with one example
14. Give the synthesis of Dapsone
15. Give the uses and synthesis of Isoniazid
16. Write a brief note on antiviral agents
17. Explain with suitable examples lincomycin antibiotics
18. Give the name and specific uses of two macrolide antibiotics
19. Define and give one example of an anticoagulant
20. Give examples of cationic surfactants with their uses
21. Give the structure and uses of procainamide and phenytoin
