

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharma-D Degree Examination – Aug / Sep 2011

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. What are sulfonamides and sulfones? Classify sulfonamides and give one example of drug with structure under each class. Give the structure activity relationships of sulfonamides
2. Define neoplasm? Classify antineoplastic agents and give one example of drug with structure under each class. Explain the mode of action of alkylating agents with suitable examples
3. Define hypertension. Classify antihypertensive agents with examples based on site of action. Give the synthesis of clonidine

SHORT ESSAYS

6 x 5 = 30 Marks

4. What are potassium sparing diuretics? Outline the synthesis of any one diuretic
5. Give the chemical nature and mechanism of action of amino glycoside antibiotics
6. Give three chemical structures and uses of drugs belonging to antihyperlipidemic agents
7. Write the chemistry, mode of action and therapeutic use of β - lactumase inhibitors
8. Define prodrug. Write the applications of prodrug with suitable examples
9. Give four chemical structure and specific uses of drugs belonging to anti-viral agents
10. Write the structure activity relationships of sulfonylureas as oral hypoglycemic agents
11. Classify antitubercular agents with examples and write the management of tuberculosis

SHORT ANSWERS

10 x 2 = 20 Marks

12. What are diagnostic agents? Give one example with its application
13. Give two example of drugs used in endocrine disorders
14. Loop diuretics
15. What are antipedicular agents and give examples
16. Write the examples of antithyroid drugs with their specific uses
17. Write the chemical structure and uses of any one estrogens
18. Write the chemical structure and uses of Metronidazole
19. What are urinary tract anti - infectives and give examples
20. Write the chemical structure and uses of any one nitrofurans
21. Write the mechanism of action of antianginal agent
