

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – Aug / Sep 2011

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 antimalarials with suitable examples. Explain the SAR among antimalarial quinolines. Give the synthesis of chloroquine and amodiaquine.
2. What are antiarrhythmic drugs? Classify with any one drug from each class. Write the synthesis of verapamil.
3. Classify diuretics with examples. Give their clinical significance and mechanism of action of each class. Outline synthesis of acetazolamide.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Define antiseptics and disinfectants with examples. Classify local anti-infectives chemically giving structure of one agent from each class.
5. Explain with suitable examples (a) Sclerosing agents and (b) Stability of tetracyclines.
6. Discuss the chemistry and synthesis of chloramphenicol.
7. Outline the synthesis of tolbutamide and tolazamide.
8. Discuss the mechanism of action of alkylating agents. Write the structures of any two such compounds.
9. What are hypocholesteramic agents? Write a note on HMG CoA reductase inhibitors and their MAO.
10. Write the examples of sulfonylureas and mention their specific uses. Give the synthesis of chlorpropamide.
11. Add a note on (a) Stereochemistry of Beta lactam antibiotics and (b) Beta lactamase inhibitors.
12. Name any two synthetic antifungal agents and Outline the synthesis of tolnaftate.
13. Write a note on present therapy of tuberculosis. Outline the synthesis of ethambutol.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Name any two polypeptide antibiotics and Give their uses.
15. Name any two antithyroid drugs and Give their structures.
16. What are ACE inhibitors? Give two examples with structure.
17. Write briefly on urinary tract anti-infectives.
18. Give the synthesis of warfarin.
19. Classify anthelmintics and Give the synthesis of niclosamide.
20. Add a note on the synergistic action of sulphamethoxazole and trimethoprim.
21. Write short notes on Lincomycins.
22. Give the mechanism of action of uses of minoxidil.
23. Give the synthesis of dicoumarol.
