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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – JAN-2019

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 antiarrhythmic drugs with relevant examples and structures. Add a note on antianginal agents and antihyperlipidemic agents.
2. Define and classify antibiotics. Explain the chemistry and SAR of tetracyclines.
3. Define and classify antimalarial drugs. Write the synthesis of Chloroquine and pyrimethamine.

SHORT ESSAYS (Answer any Eight)**8 x 5 = 40 Marks**

4. Write the structure and mechanism of action of Methotrexate.
5. Give an account of loop diuretics.
6. Explain the SAR of thiazide diuretics.
7. Write a note on chemistry and SAR of sulfonamides.
8. Give an account of oral hypoglycaemics. Write the synthesis of chlorpropamide.
9. Write the synthesis of metronidazole and dapsone.
10. Enlist various antitubercular drugs. Write the synthesis of INH.
11. Give an account of anthelmintic agents.
12. Explain the significance of prodrugs and combinatorial chemistry in drug design.
13. Write the structure and uses of the following: i) Clavulanic acid ii) Clotrimazole iii) Caffeine iv) Ampicillin.

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

14. Outline the synthesis and uses of Warfarin.
15. Give examples and structures for antithyroid drugs.
16. Write the structure and uses of spironolactone.
17. Name two antifungal antibiotics with their specific uses.
18. Write the structure and uses of benzyl benzoate.
19. Write the structure and uses of Erythromycin.
20. Give the mechanism of action and uses of Pyrimethamine.
21. Write structures of acetazolamide and chloramphenicol.
22. Define sclerosing agent with example.
23. Write the synthesis and uses of Tolnaftate.
