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Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharma-D Degree Examination – Jan 2014

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

MEDICINAL CHEMSITRY

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 antihypertensive agents? Classify them giving examples. Give the synthetic route of propranolol.
2. Discuss SAR of tetracyclines. Give their mechanism of action.
3. Classify local anti-infective agents with examples. Write the SAR and mechanism of action of alcohols.

SHORT ESSAYS **6 x 5 = 30 Marks**

4. Explain the chemical degradation reactions of penicillins.
5. Write about the lipophilic parameters used in QSAR.
6. Discuss the chemistry and mechanism of action of antifungal antibiotics.
7. Write briefly about the chemistry and mechanism of action of anticoagulants.
8. Give the synthesis and uses of: (i) Furosemide (ii) Chloroquine.
9. Write an account on folate reductase inhibitors.
10. Discuss the chemistry and therapeutic uses of glucocorticoids.
11. Classify antiviral agents. Give the mechanism of action of zidovudine.

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

12. Write any two structures and uses of vasodilators.
13. Define prodrug with an example.
14. What is synergism? Give example.
15. Beta lactamase inhibitors
16. Drug drug interaction of quinolone antibacterials
17. Give the synthesis and uses of metronidazole.
18. What is crystalluria? How to overcome it?
19. Sulfonamides used in burn therapy.
20. Give the structure and mechanism of action of enalapril.
21. Outline the synthetic route for ethacrynic acid.

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