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## Rajiv Gandhi University of Health Sciences, Karnataka

Fourth year B.Pharm Degree Examination - August 2010

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)

 $2 \times 10 = 20 \text{ Marks}$ 

- 1. Classify diuretics with suitable examples. Give their clinical significance. Outline the synthesis of acetazolamide and ethacrynic acid.
- 2. Classify sulphonamides with suitable examples. Give the synthesis of sulphamethoxazole and Trimethoprim.
- 3. Classify antineoplastic agents. Explain in detail the alkylating agents and antimetabolites with suitable examples. Add a note on immunotherapy.

## SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$ 

- 4. What are antipseudomonal cephalosporins? Add a note on oral and parentral cephalosporins.
- 5. Discuss the mechanism of action and SAR of amino glycosides.
- 6. What are antiprotozoal agents? Give the structure and synthesis of any two antiprotozoal agents.
- 7. Outline the synthesis of clonidine and hydralazine.
- 8. Write a note on present therapy of tuberculosis. Outline the synthesis of isoniazid.
- 9. What are hypocholesteramic agents? Write a note on HMG CoA reductase inhibitors and their MAO.
- 10. Explain with suitable examples (a) Halogen containing antiinfectives and (b) Antifungal antibiotics.
- 11. Add a note on (a) Stereochemistry of Beta lactum antibiotics and (b) Beta lactamase inhibitors.
- 12. Name any four hypoglycemic agents and give the synthesis of tolbutamide.
- 13. Discuss the mechanism of action of nitrovasodilators. Write the structure of any two such agents.

## SHORT ANSWERS $10 \times 2 = 20 \text{ Marks}$

- 14. Name any two folate reductase inhibitors and give their uses.
- 15. Name any two anthithyroid drugs and give their structures.
- 16. What are anticoagulants? Give two examples with structure.
- 17. Write briefly on preservatives.
- 18. Write the structure and use of acyclovir.
- 19. Give the synthesis of Ciprofloxacin
- 20. Give the mechanism of action and uses of minoxidil
- 21. Write the structure and use of Zidovudine.
- 22. Explain the synergistic action of sulphamethoxazole and trimethoprim.
- 23. Write short notes on Lincomycins.

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