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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination - NOV 2017

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)

- 1. Classify Sulphonamides with suitable examples. Explain the SAR among antibacterial sulphonamides. Give the synthesis of sulfisoxazole and sulfamethoxazole.
- 2. Give the therapeutic classification of antimalarials. Explain how synthetic antimalarials were developed from quinine as a lead. Write the synthesis of pamaguine.
- 3. Classify antihypertensive agents. Explain the following with suitable examples (a) Calcium Channels and their blockers. (b) Beta blockers.

SHORT ESSAYS (Answer any Eight)

- What are prodrugs? Explain the factors to be considered in designing a prodrug with 4. suitable examples.
- 5. Write the examples of sulfonylureas and mention their specific uses. Give the synthesis of chlorpropamide.
- 6. Discuss the SAR of tetracyclines.
- Outline the synthesis of pyrimethamine and chlorguanide. 7.
- Write a note on present therapy of tuberculosis. Outline the synthesis of Clofazimine. 8.
- What are hypocholesteraemic agents? Write a note on HMG CoA reductase inhibitors and 9. their MAO.
- 10. Explain with suitable examples (a) Dyes used as local antiinfective agents and (b) Halogen containing antiinfectives.
- 11. Add a note on (a) Stereochemistry of Beta lactam antibiotics and (b) Beta lactamase inhibitors.
- Name any two synthetic antifungal agents and outline the synthesis of tolnaftate. 12.
- Give the structure of any two carbonic anhydrase inhibitors and give their MAO. 13.

SHORT ANSWERS

- 14. What are ACE inhibitors? Give two examples with structure.
- Write briefly on potassium sparing diuretics. 15.
- List out important antiviral agent's. Give the structure and use of any one antiviral drug. 16.
- 17. Give the synthesis of sulphapyridine.
- 18. Give the synthesis of clotrimazole.
- Classify anthelmintics and Give the synthesis of Mebendazole. 19.
- 20. Explain the synergistic action of sulphamethoxazole and trimethoprim.
- 21. Write short notes on Lincomycins.
- Give the mechanism of action of alkylating agents. 22.
- Give the synthesis of Ciprofloxacin. 23.

$10 \times 2 = 20$ Marks

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8 x 5 = 40 Marks

2 x 10 = 20 Marks