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Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination - NOV 2017

Time: Three Hours
MEDICINAL CHEMISTRY (RS & RS2)

Q.P. CODE: 2865

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

Max. Marks: 70 Marks

- a) Write short notes on pencillinase resistant oral penicillins.
 - b) Give an account of chemistry and stability of penicillin molecule
- Classify cardiovascular agents with examples. Write an account on calcium channel blockers. Give the synthesis of Diltiazem
- a) Add a note on folate reductase inhibitors. Explain the synergestic action of sulphamethoxazole and trimethoprim.
 - b) Discuss the MOA of Mercaptopurine and Busulfan.

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

- Classfiy anthelmintics with examples. Give the synthesis of Albendazole
- 5. Classify antiameobic agents with examples. Give the synthesis of Metronidazole
- 6. Explain the SAR of sulfonamides? Give the synthesis of Dapsone
- Describe in detail the status of natural products useful in the treatment of human malarial infections
- 8. Discuss the MOA of alkylating agents. Write the synthesis of Cyclophosphamide
- Give three chemical structures and uses of drugs belonging to antihyperlipidemic agents
- Name any four antiviral agents. Give the structure and uses of Amantadine.
- 11. Classify antitubercular agents. Write the structure of any two antitubercular drugs.

SHORT ANSWERS 10 x 2 = 20 Marks

- 12. What are lead molecules? How are they useful in drug discovery?
- 13. Define combinatorial chemistry. Enlist its applications
- Write the structure and uses of alpha-2 agonist
- 15. Name any four drugs used in the treatment of type-2 diabetes
- Give the MOA of Anagliptin
- Write any two structures of Imidazole derivatives used as antithyroids
- Give the MOA of mercurials
- Structure and uses of Acetazolamide
- 20. Name any two drugs used for examination of angiography and urogrphy
- What are steroids? Name any one drug containing pregnane nuclei

