



Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – NOVEMBER 2015

Time: Three Hours

Max. Marks: 70 Marks

MEDICINAL CHEMISTRY

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

1. Discuss the SAR and mode of action of Urinary Tract anti-infective Quinolones. Outline the synthesis of Ciprofloxacin.
2. What are Antihypertensive agents? Classify them with examples. Outline the synthesis of Propranolol.
3. Define the term 'antibiotic'. Discuss the chemical degradation of Penicillin. Outline the synthesis of Chloramphenicol.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Outline the synthesis and mode of action of any one β -blocker.
5. What are antifungal antibiotics? Write the structure of any two compounds.
6. Write a note on 'CADD'.
7. What are Carbonic Anhydrase Inhibitors? Discuss their mode of action.
8. Discuss the SAR of Sulphonamides. Add a note on their mode of action.
9. What are anti-Arrhythmic agents? Outline the synthesis of Procainamide.
10. Outline the synthesis and uses of Pamaquine and Pyrimethamine.
11. Discuss mode of action of anti-hyperlipidemic agents with examples.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the structures of Diethyl Carbamazepine and Mebendazole.
13. What are Macrolides? Write the structure of any one compound.
14. Write the structure and chemical name of Lomustine.
15. Outline the synthesis of PAS.
16. Write the structures and chemical names of any 4-Aminoquinoline anti-malarials.
17. Outline the synthesis of Warfarin.
18. Write the structure and uses of Zidovudine.
19. Discuss the concept 'Combinatorial Chemistry'.
20. Name any two Aminoglycoside antibiotics. Write the structure of any one.
21. What are anti-anginal agents? Write the structure of any one compound.
