

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharma-D Degree Examination – Aug 2013

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

2 x 10 = 20 Marks

1. What are anti-malarial agents? Classify with examples. Write the synthesis of Pamaquine and pyrimetamine.
2. a. Classify Semi synthetic penicillins. Discuss the SAR of Tetracycline Antibiotics.
b. Give the synthesis of Metronidazole & Di-iodohydroxy quinoline.
3. What are Antihypertensive agents? Classify by giving at least one structural example for each class. Give the synthesis of Propranolol.

SHORT ESSAYS

6 x 5 = 30 Marks

4. Give the mechanism of action of Sulphonamides.
5. *Write the structure and therapeutic uses of any two antifungal antibiotics*
6. Give the mechanism of action of Carbonic anhydrase inhibitors.
7. Classify alkylating agents with structural examples.
8. Give the structure & uses of the following:
(a) Captopril, (b) Methyldopa, (c) Chloramphenicol, (d) Sulphamethoxazole, (e) Phenytoin.
9. *Name any five drugs used as anthelmintics and their therapeutic uses.*
10. What are antiarrhythmic agents? Outline the synthesis of Procainamide.
11. Give an account of drugs used as diagnostic agents.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Name the heterocyclic nucleus present in Diethylcarbamazine & Chloroquine.
13. Give the uses of Betamethasone.
14. Write the structure & medicinal uses of Chlorpropamide.
15. Write the structure and medicinal use of Isosorbide dinitrate.
16. Name any two drugs used as Anti-infective agents.
17. Define coagulants. Give examples.
18. Name any two drugs used as vasodilator.
19. What are anti hyperlipidemic agents?
20. Give the structure of propyl thiouracil.
21. Give the structure and medicinal use of Thiabendazole.
