



Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – 10-Jan-2020

Time: Three Hours**Max. Marks: 70 Marks****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**

1. What are Beta lactum antibiotics? Give the degradation products of penicillins. Outline the synthesis of Chloramphenicol
2. Classify antihypertensive agents? Write a note on antianginal agents? Give the structure and uses of any two nitro vasodilators
3. a) What is crystal urea? How to overcome from it.
b) How malaria is caused? Classify antimalarial agents.

SHORT ESSAYS (answer any six)**6 x 5 = 30 Marks**

4. Give examples of drugs that act as DNA polymerase inhibitors. Describe their chemistry and therapeutic uses
5. What are anti TB drugs? Enlist the problems associated with the treatment. Give the structure of Para amino salicylic acid and INH
6. Add a note on folate reductase inhibitors. Explain the synergistic action of Sulphamethoxazole and Trimethoprim
7. Write the SAR of i) 8-amino quinolines ii) 4-amino quinolines
8. Give the structure, MOA and therapeutic uses of Chlorambucil
9. Write the briefly about the chemistry and MOA of anticoagulants
10. Give the examples of substituted Imidazoles as antifungal agents? Give the synthesis of Miconazole.
11. Name any four antiamebic drugs. Give the synthesis of Metronidazole.

SHORT ANSWERS**10 x 2 = 20 Marks**

12. What is CADD? Enlist the applications
13. Write the structure of one prodrug and its active metabolites
14. Name any two calcium channel blockers with their uses
15. Define hyperglycemia? Name any two biguanides used in the treatment of diabetes
16. Give the MOA of biguanides
17. What are antithyroid drugs? Why are they called goitrogens?
18. Structure and uses of Furosemide
19. What are potassium sparing diuretics? Give examples
20. Name any two drugs used for examination of liver function
21. What are steroidal drugs? Name any two steroidal drugs with their uses

