



Rajiv Gandhi University of Health Sciences, Karnataka III Year Pharm-D Degree Examination – 02-Jan-2020

Time: Three Hours**Max. Marks: 70 Marks****PHARMACOLOGY –II (RS & RS2)****Q.P. CODE: 2861**

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 aminoglycoside antibiotics? Write the mechanism of action, adverse reactions and therapeutic uses of streptomycin. (2+3+3+2)
2. Describe the steps involved in recombinant DNA technology. Add a note on their pharmaceutical applications. (7+3)
3. Classify anti-leprotic drugs with examples. Write the mechanism of action, adverse effects and therapeutic uses of dapsone. Add note on different forms of leprosy. (3+4+3)

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

4. Write mechanism of action, adverse effects and therapeutic uses of warfarin.
5. Enlist diuretics acting on ascending and descending loop of Henle. Write their adverse effects and therapeutic use.
6. Write the mechanism of action and uses of ampicillin.
7. Write the mechanism of action, adverse effects and uses of vincristine.
8. Describe the signal transduction pathway of MAPK kinases.
9. What is RNA processing? Write the importance of tRNA and mRNA?
10. Explain the process of cell cycle regulation.
11. Write sources, mechanism of action and therapeutic uses streptokinase and urokinase.

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

12. Name four fibrinolytic agents.
13. Mention four uses of thiazide diuretics.
14. Mention any four blood schizonticides.
15. What are probiotics? Give examples.
16. Write uses of Glucocorticoids as immunosuppressants.
17. Mode of action of Tetracyclines.
18. Define therapeutic index.
19. Explain the term chronic toxicity.
20. Mention stages of mitosis.
21. Name the types of gene therapies.

