

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination - 02-Nov-2023

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. Classify sulfonamides with examples. Write the mechanism of action, antibacterial spectrum, merits and uses of co-trimoxazole.
2. Describe the steps involved in recombinant DNA technology. Add a note on their pharmaceutical applications.
3. a) Classify anticancer agents with examples.
b) Describe the adverse effects of antineoplastic agents.

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

4. Describe the steps involved in gene transcription of prokaryotes.
5. What are diuretics? Classify them with examples.
6. Write about mode of antimicrobial resistance in microbes.
7. Classify fluoroquinolones with examples and write their therapeutic uses.
8. What are macrolides? Give examples. Write the pharmacology of erythromycin.
9. Explain the process of positive and negative regulation of Lac operon.
10. Describe the signal transduction pathway of MAPK Kinases.
11. What is mutation? Add a note on point mutation and frame shift mutation.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Mention four low molecular weight heparins.
13. Mention mTOR Inhibitors.
14. What is Superinfection?
15. Enlist the four toxic effects of Chloramphenicol.
16. Enlist four anti TB agents.
17. Write uses of glucocorticoids as immunosuppressants.
18. Define toxicology.
19. Mention the cell signal transduction pathways.
20. Name the methods of communication between the cells.
21. What is loss of Heterozygosity?
