

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination – 16-May-2025

Time: Three Hours

Max. Marks: 70

PHARMACEUTICAL MICROBIOLOGY (RS & RS2)

Q.P. CODE: 2857

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. Differentiate between Gram positive and Gram negative cell wall. Add a note on principle and procedure of Gram's staining technique
2. Explain the principle and operating procedure of Industrial autoclave along with a neat labelled diagram
3. What are disinfectants? Classify and explain their mode of action with examples

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Write salient feature of differential and selective media along with examples
5. Write the procedure, merits and demerits of ethylene oxide sterilization
6. Explain the methods to evaluate bacteriostatic activity
7. Discuss the microbial assay of cyanocobalamin
8. What is immunity? Classify and explain principles of natural immunity
9. Explain the methods of sterility testing
10. Write a note on AIDS virus
11. Explain the life cycle of malarial parasite

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write contributions of Louis Pasteur
13. Write bio-indicators for thermal sterilization
14. What are haptens?
15. What is tyndallization?
16. Write the ideal properties of an antiseptic
17. What is 'Zone of inhibition'?
18. Name the disease caused by fungus
19. What is the role of agar in culture media?
20. Explain the significance of positive and negative control in sterility testing
21. Mantoux test
