

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination – 02-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. What is a pure culture? Explain the different methods of isolation of pure culture and their preservation methods
2. Define sterilization. Write the methods of sterilization and explain non thermal methods of sterilization in detail
3. What are antigens and antibodies? Write the different types of antibodies. Explain the significance antigen-antibody reactions in diagnosis of diseases

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Draw a neat labelled diagram of Mac-Intosh jar and explain its application
5. What are sterilization indicators? Explain hour tubes
6. Suggest a suitable method of sterilization for ophthalmic preparation and explain briefly
7. Explain the different methods for cultivation of virus
8. Write the method of sterility test for ointments
9. Explain the method for interpretation of results in antibiotic assay by cup plate method
10. Name the causative organism, symptoms, diagnosis, prevention and treatment for tuberculosis
11. What are vaccines? Explain the methods for standardization of vaccines

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is synthetic media?
13. Write the Robert Koch postulates
14. What is Widal test?
15. Name the causative organism and treatment for syphilis
16. Write structure of typical virus
17. Give the difference between bacteria and fungus
18. What are toxins?
19. What are HEPA filters?
20. What are monoclonal antibodies?
21. Name the medias used in test for sterility
