

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination – 04-Jun-2024

Time: Three Hours

Max. Marks: 70 Marks

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. Define culture media. Classify the types of culture media with suitable examples.
2. Enlist antigen antibody reactions. Describe ELISA test in detail.
3. Explain the construction, principle, procedure, merits, demerits and applications of autoclave.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Classify bacteria on morphological basis.
5. Write the principle and procedure of Gram's staining technique.
6. Write the causative agent, mode of transmission and treatment of cholera.
7. Explain the standardization methods of vaccines and sera.
8. Describe bacteriostatic evaluation of disinfectants.
9. Explain the mechanism, demerits and applications of UV radiation sterilization.
10. Enlist methods for isolation of pure culture.
11. Write the microbial assay of Streptomycin by cup-plate method.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Functions of BOD incubator.
13. Mention different types of immunoglobulins.
14. Write principle of acid fast staining.
15. What are HEPA filters?
16. Define synchronous growth curve.
17. Difference between bacteriostatic and bactericidal agents.
18. Write types of immunity.
19. Define Bacteriophage.
20. Write significance of sterility test.
21. Write the classification of Fungi.
