

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination – 06-Nov-2023

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. Draw an ultra structure of typical bacteria. Write composition and functions of its organelles.
2. Explain the principle, procedure, applications, merits and demerits of sterilization using hot air oven.
3. Mention various antigen-antibody reactions. Discuss in detail about the precipitation reaction.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Write the principle and procedure of Acid-fast staining.
5. Write about the methods of maintenance of pure culture.
6. Classify Disinfectants with examples, and mention properties of ideal disinfectant.
7. Describe Bacterial growth curve.
8. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of Tuberculosis.
9. Write the principle and method of microbiological assay of streptomycin.
10. Describe the steps involved in replication of Virus.
11. Explain any two methods of viable counting of Bacteria.

SHORT ANSWERS

10 x 2 = 20 Marks

12. State Koch's postulates.
13. Mention the chemicals used in gaspack system.
14. Name any four gaseous sterilants.
15. Mention the drugs used in the treatment of AIDS.
16. Define Spirochetes.
17. **What is Booster dose and its significance?**
18. **Write the applications and demerits of UV radiation as a sterilant.**
19. Define Enriched media.
20. **Mention any four pharmaceutical uses of fungi.**
21. Define Bacterial spore.
