

Rajiv Gandhi University of Health Sciences, Karnataka
II Year Pharm-D Degree Examination – 16-Nov-2021

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. Describe the common methods for isolating pure culture and write a note on its preservation.
2. Classify sterilization methods. Explain in detail the non-thermal methods of sterilization.
3. Explain how the total and viable population of bacteria in a sample is assessed.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Write the differences between prokaryotes and eukaryotes with examples.
5. Explain the principle and procedure involved in the assay of vitamins.
6. Write the causative agent, mode of transmission and treatment of syphilis.
7. Describe ELISA test and write its significance.
8. Explain the various methods of cultivation of virus.
9. Explain various factors affecting disinfectants activity.
10. Add a note on sterilization indicators.
11. Write a note on immunoglobulins.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Contribution of Alexander Fleming.
13. Define Attenuation.
14. Write merits of hot air oven.
15. Write the significance of biochemical test.
16. Bacterial growth curve.
17. Define negative staining.
18. Differences between H and O antigen.
19. Define spirochetes.
20. Write passive immunity.
21. Define Autotrophs and heterotrophs.
