

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination - JUNE-2019

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 bacterial growth curve. Add a note on physical factors affecting growth of bacteria. (5+5)
2. Explain types of antibodies. Explain antigen antibody reactions. (5+5)
3. Explain the principle, procedure, applications and demerits of sterilization using hot air oven. (3+3+2+2)

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Write principle and procedure of Gram's staining technique.
5. Describe any two methods of viability counting.
6. Write a note on sterilization indicators.
7. Write principle, procedure and applications of Western Blotting Technique.
8. Explain principles involved in microbiological assay of streptomycin.
9. Write about causative organism, mode of transmission, sign and symptoms and treatment of tuberculosis.
10. Write a note on cultivation of virus.
11. Write the procedure of Redial Walker's co-efficient test.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write four pharmaceutical uses of microorganisms.
13. Differentiate between log phase and decline phase.
14. What are plasmids?
15. Mention applications of UV radiations as a sterilization agent.
16. Mention the causative organism for typhoid and syphilis.
17. Give the mode of transmission for AIDS.
18. Write mechanism involved in membrane filtration sterilization.
19. What are mixed vaccines? Give examples.
20. Mention drugs used in treatment of Malaria.
21. Write contributions of Louis Pasteur
