

Rajiv Gandhi University of Health Sciences, Karnataka
II Year Pharm-D Degree Examination – 18-12-2020

Max. Marks: 70 Marks

Time: Three Hours

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. Explain the principle, operating procedure, merits and demerits of Ethylene oxide sterilization.
2. Define and classify culture media with examples and add note on cultivation of anaerobic bacteria.
3. Enlist the methods used for counting of bacteria and explain any two methods of total counting. (4+6)

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Justify the importance of controls in sterility testing.
5. Write the principle, procedure and applications of Widal test.
6. Mention the causative, organism, mode of transmission, signs and symptoms, diagnosis and prevention of AIDS.
7. Classify bacteria on the basis of morphological features.
8. Explain MR-VP test used for identification of bacteria.
9. Write a note on cultivation of Virus.
10. Write the principle and method of microbiological assay of Vitamin B12.
11. Write a note on phenol coefficient test.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Contribution of Louis Pasteur.
13. Name the causative organism and diagnostic test for malaria.
14. Give examples for aerial disinfectants.
15. Mention the organism used in microbiological assay of Streptomycin.
16. Difference between Exo-toxin and Endo toxin.
17. Write the principle used in coulter counter instrument.
18. Mention the functions of bacterial capsule.
19. What are HEPA filters?
20. What are mixed vaccines? Give examples.
21. Write the difference between fungi and bacteria.
