

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination – MAY 2018

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. Classify bacteria on the basis of oxygen requirement. Explain any four efficient methods of cultivation of anaerobic bacteria. (2+8)
2. Explain principles involved in sterilisation by filtration. Add a note on its merits and demerits (5+1+4)
3. Classify bacteria on the basis of morphological features. Add a note on composition and functions of cell wall. (6+4)

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Write principle and procedure of Acid-fast staining.
5. Write the procedure of Redial Walker's co-efficient test
6. Enlist different antibody antigen reactions and mention its diagnostic applications
7. Write principle involved in the assay for Vitamin B₂
8. Write a note on Mantoux test.
9. Write a note on Cholera disease and its prevention and treatment.
10. Differentiate between gram positive and Gram negative cell wall.
11. Write about standardization of vaccines and sera.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write contributions of Alexander Fleming
13. Differentiate between autotrophs and heterotrophs.
14. Give examples for aerial disinfectants
15. Name any two compounds used for disinfection of water, mention their mechanism of action
16. What are mixed vaccines? Give examples
17. Write general storage conditions for vaccines and sera
18. Mention organisms for microbiological assay of streptomycin
19. Write the mode of transmission of AIDS
20. Differentiate between enrichment and selective media.
21. Differentiate between bacteria and virus
