

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharma-D Degree Examination – DEC-2014

Time: Three Hours

Max. Marks: 70 Marks

PHARMACEUTICAL MICROBIOLOGY

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 a typical Bacteria, label and explain the cell organelles in detail.
2. What are disinfectants? Classify with examples and write their mechanism of action.
- 3 Explain the microbiological assay of Streptomycin IP.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. What is test for sterility? Explain the method for sterility testing in oily preparations.
5. Write briefly on gaseous sterilization.
6. Write a note on antibody-antigen reactions.
7. What is differential staining? Explain.
8. Write a note on cultivation of virus.
9. Name the causative organism, mode of transmission, prevention and treatment for syphilis.
10. Explain the different methods for determination of total count.
11. Explain ELISA test.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What are the Postulates of Robert Koch?
13. Name the causative organism and mode of transmission of Malaria.
14. What are the contributions of Edward Jenner?
15. What is paratope?
16. What are Haptens?
17. Parameters for autoclaving
18. Antibiotics
19. Biological indicators
20. Bacteriophage
21. Growth curve
