

Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination - JAN-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 the steps involved in sterility testing; add a note on its interpretation. (6+4)
2. Mention methods used for identification of bacteria. Explain any four biochemical tests used for identification of bacteria. (2+8)
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 classification, mechanism of action and uses of phenolic disinfectants
5. Write principle, procedure and applications of widal test.
6. Write procedure for titrimetric microbiological assay vitamin B₁₂
7. Write about causative organism, mode of transmission, sign and symptoms and treatment of tuberculosis.
8. Write the production, mechanism of action, demerits and applications of UV radiations
9. Define immunity. Classify the types of immunity.
10. Describe bacterial growth curve.
11. Classify disinfectants giving examples.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the Principle involved in Western blot
13. What are Toxin and Toxoids?
14. Mention any four applications of filtration sterilization.
15. What is MIC?
16. What is pure culture?
17. What are attenuated vaccines give examples
18. Write functions of cytoplasmic membrane.
19. What is selective media? Give example.
20. Write about Southern blot test.
21. What is synchronous growth?
