



Rajiv Gandhi University of Health Sciences, Karnataka
II Year Pharm-D Degree Examination – 07-Jan-2020

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. Differentiate between gram positive and gram negative cell wall. Add a note on principle and procedure of Gram's staining technique.
2. Explain different factors affecting disinfection.
3. Explain the mechanism of action, procedure, applications and factors affecting sterilization using ethylene oxide.

SHORT ESSAYS (Answer any six)**6 x 5 = 30 Marks**

4. Explain MR-VP tests used for identification of bacteria.
5. Write the procedure of Redial Walker's co-efficient test.
6. Write principle, procedure and applications of Western Blotting Technique.
7. Write about standardization of vaccines and seras.
8. Describe methods of reproduction in fungi.
9. Describe any two methods of viability counting.
10. Enlist different antigen-antibody reactions and mention its diagnostic applications.
11. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of malaria.

SHORT ANSWERS**10 x 2 = 20 Marks**

12. Write the mode of transmission of cholera.
13. Write the organisms used in microbiological assay of streptomycin.
14. Define vaccine with examples.
15. Mention different types of immunoglobulins.
16. Mention any four applications of autoclave.
17. What are HEPA filters?
18. What are cryoprotective agents? Give examples.
19. Differentiate between log phase and decline phase.
20. What are rickettsiae?
21. Differentiate between prokaryotes and Eukaryotes.

