

Rajiv Gandhi University of Health Sciences, Karnataka

Third Semester B. Pharm Degree Examination – 06-Jan-2020

Time: Three Hours**Max. Marks: 75 Marks****Pharmaceutical Microbiology****Q.P. CODE: 5011**

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. With the help of neat labelled diagram. Explain the principle, construction, working and application of Hot Air oven.
2. Draw a neat diagram of virus cell and explain stages of replication.
3. Explain different methods of evaluations of Disinfectants.

SHORT ESSAYS (Answer any Seven)**7 x 5 = 35 Marks**

4. Explain the principle and procedure involved in MR-VP test.
5. Discuss sterilization by radiation.
6. Discuss the different methods of Microbial assay of Antibiotics.
7. Explain the different methods of maintenance of laboratory culture.
8. Write the principle and procedure of Acid-Fast staining.
9. Explain design and working of Laminar air flow equipment.
10. Discuss types of microbial spoilage.
11. Write the principle of sterility testing.
12. Discuss on basic requirements to establish cell culture laboratory.

SHORT ANSWERS (Answer All)**10 x 2 = 20 Marks**

13. Difference between gram positive and gram negative cell wall.
14. Holder method of Pasteurization.
15. Biological indicator.
16. Sterility test for powders.
17. Fungi.
18. Viable count.
19. D value.
20. Application of animal cell culture.
21. Sterilization of surgical dressings.
22. Classify bacteria based on their temperature requirements with examples.
