

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B. Pharm Degree Examination – 07-Jan-2020

Time: Three Hours**Max. Marks: 80 Marks**

PHARMACEUTICAL MICROBIOLOGY AND BIOTECHNOLOGY **(Revised Scheme - 2)** **Q.P. CODE: 1957**

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. Explain identification of bacteria in detail and add a note on nutritional requirement of bacteria.
2. Explain in detail production of penicillin by fermentation process.
3. Describe various antigen-antibody reactions.

SHORT ESSAYS (Answer any Eight)**8 x 5 = 40 Marks**

4. Differentiate between synthetic and non-synthetic media. What is selective media?
5. Write a note on total and viable count of bacteria.
6. Discuss cold sterilization methods.
7. Write Chick-Martin phenol co-efficient test.
8. Write a note on transduction.
9. ELISA test
10. Write the methods for anaerobic cultivation of bacteria.
11. Tyndallization and Pasteurization
12. Write a note on sterility testing.
13. Evaluation of bacteriostatics

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

14. Plasmids
15. Composition of nutrient agar
16. Phagocytosis
17. Principle of autoclaving
18. H & O antigens
19. Capsule of bacteria
20. Bacteriophage
21. Ideal properties of disinfectant
22. Protoplast Fusion
23. Preparation of inoculum in microbial assays
