

Rajiv Gandhi University of Health Sciences, Karnataka

Third Semester B. Pharm Degree Examination – 29-Jun-2022

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

All the questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Explain the principle, procedure, applications and demerits of sterilization using autoclave.

OR

Explain the various factors affecting the disinfectant activity and mechanism of action.

2. With the help of a neat diagram explain an ideal bacterial cell.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Give the morphological classification of bacteria.

OR

Write a note on sterilization indicators.

4. Differentiate between Prokaryotic and Eukaryotic cell.

OR

Explain Viral Replication.

5. Write the types of microbial contaminants and add a note on assessment of microbial contamination

6. Explain the methods of evaluation of preservatives in pharmaceutical preparation.

7. Define sterilization and classify it with suitable examples.

8. **Explain any two methods of viability counting**

9. Explain factors affecting gaseous sterilization.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Contribution of Louis Pasteur.

11. Antiseptic.

12. Acid **fast** staining.

13. Lag phase.

14. MIC.

15. Enriched media.

16. Z value.

17. **What is secondary cell culture**

18. What is a preservative, give example?

19. What are micronutrients?
