

**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?

\*\*\*\*\*