

Rajiv Gandhi University of Health Sciences, Karnataka
Third Semester B. Pharm Degree Examination – 07-Jun-2024

Time: Three Hours

Max. Marks: 75

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 and result interpretation of sterility testing.

OR

Explain different methods of cultivation of anaerobic bacteria.

2. Discuss the design, mechanism and working of autoclave. Explain its applications.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Discuss the morphological classification of bacteria.

OR

Explain the mode of action of mercurial and phenolic disinfectants.

4. Explain the principle and method of phenol co-efficient test.

OR

Explain the evaluation of preservatives used in pharmaceutical products

5. Enumerate different methods of isolation of pure culture.

6. Explain the principle and procedure involved in Indole production test.

7. Describe the microbiological assay of vitamin B12.

8. Discuss the general procedure of animal cell culture.

9. Describe methods of reproduction in fungi.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Define bacterial growth curve.

11. List four examples of bacterial culture media.

12. Differentiate between flagella and fimbriae.

13. List the pharmaceutical uses of fungi.

14. Classify clean area.

15. Differentiate between antiseptic and disinfectant.

16. List the advantages of membrane filtration method of sterilization.

17. Define pasteurization

18. Name the chemicals used in gram staining and list their functions.

19. List the factors that cause microbial spoilage.
