

Rajiv Gandhi University of Health Sciences, Karnataka

Third Semester B. Pharm Degree Examination – 29-Mar-2021

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. What is a virus? Explain the morphology and replication of virus.

OR

Enumerate the various methods involved in identification of bacteria.

2. Write the principle and procedure to carry out sterility testing of aqueous solutions and suspensions.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the difference between prokaryotes and eukaryotes.

OR

What is Phenol coefficient test?

4. Classify bacteria based on nutritional requirements.

OR

What are the factors affecting microbial spoilage of pharmaceutical products?

5. Write a note on Bacteriophage replication.
6. Mention the ideal characteristics of disinfectants.
7. Enlist the types of staining. What is negative staining?
8. Explain the cultivation of anaerobic bacteria.
9. What are the nutritional requirements for animal cell culture?

SHORT ANSWERS

10 x 2 = 20 Marks

10. What is Enriched media?
11. What is normal flora?
12. Give the applications of animal cell culture in pharmacy.
13. Classify clean area.
14. What do you mean by primary culture?
15. What are sterilization indicators?
16. Give two examples of gram +ve and gram -ve bacteria.
17. What is thermal death time?
18. Differentiate between bacteria and fungi.
19. What is synchronous growth?
