

Rajiv Gandhi University of Health Sciences, Karnataka
Third Semester B. Pharm Degree Examination – JUNE-2019

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

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. What is pure culture? Write in detail about isolation of pure culture. (2+8)
2. Explain the principle, procedure and applications of any one thermal method of sterilization. (3+4+3)
3. Explain different methods for evaluation of bacteriostatic disinfectant.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Give the principle and main characteristic of phase contrast microscopy.
5. Describe bacterial growth curve.
6. Write the procedure, merits and demerits of membrane filtration.
7. Write principle and procedure of Gram staining.
8. Describe steps involved in replication of virus.
9. What are the main sources of contamination of an aseptic room? How will you prevent it?
10. Explain principles involved in microbiological assay of streptomycin.
11. How will you detect microbial contamination in pharmaceuticals?
12. Write briefly on general requirements of cell culture laboratory.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write contributions of Robert Koch.
14. What is enriched media? Give example.
15. Write applications of uv radiations.
16. What is mycelium?
17. Write the ideal properties of disinfectant.
18. What is direct inoculation method of sterility testing?
19. What is sterility testing?
20. How will you validate HEPA filter?
21. List out different types of microbial contaminants in pharmaceuticals.
22. What is secondary cell culture?
