

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Sep 2012

Time: Three Hours

Max. Marks: 80 Marks

PHARMACEUTICAL MICROBIOLOGY & BIOTECHNOLOGY (Revised Scheme - 2)

Q.P. CODE: 1957

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. Discuss the different methods of evaluation of preservatives used in pharmaceutical preparations
2. Discuss the principles, different methods, sampling and interpretations of results in Sterility testing
3. Enumerate various Antigen – Antibody reactions. Discuss in detail Agglutinations test

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Describe the methods and precautions for Culturing Anaerobic Bacteria
5. Explain Stab culture
6. Write the principle and procedure of ELISA
7. Discuss any two methods of viral cultivation
8. Write a note on Cold Sterilization methods
9. Write pharmaceutical applications of Monoclonal antibodies
10. How are Vaccines standardized?
11. Write the principle and procedure in Microbiological assay of streptomycin
12. Explain Coenocytic fungi
13. Write the difference between Exotoxins and Endotoxins

SHORT ANSWERS

10 x 2 = 20 Marks

14. Classification of vaccines
15. Toxoids
16. Spore staining
17. Suggest the method of sterilization with reason for a) Antibiotics b) Eye drops
18. Restriction endonuclease
19. Psychrophile
20. Tyndalization
21. Negative staining
22. Haptens
23. Transposomes