

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Aug / Sep 2011

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 design and operation of large scale hospital Moist Heat Sterilization? Give its applications
2. Discuss in detail the factors that will affect disinfectant activity
3. Discuss the production of Vitamin B12 by fermentation

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. How do you preserve pure cultures?
5. Write a note on hanging drop preparation
6. Explain the principle and procedure of southern blot test
7. Define flagella. Classify the types of flagella
8. Explain sterilization by radiation
9. What is antigen Antibody reaction? Explain complement fixation
10. How is Streptomycin manufactured?
11. Write a note on Monoclonal antibodies
12. Explain the various methods for the determination of viable count of micro organisms
13. Write the different phases of Bacterial Growth Curve. Give reasons for each phase

SHORT ANSWERS

10 x 2 = 20 Marks

14. Bacteriophage
15. Biological indicators
16. ELISA
17. Epitope
18. F-Plasmid
19. Obligate anaerobes
20. Thermal death time (TDT)
21. VDRL – test
22. Transduction
23. Flagellar staining