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Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Pharm Degree Examination – August 2010

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)

- 1. Define and classify sterilization. Explain autoclave and pasteurization techniques
- 2. Write the production of streptomycin by fermentation method
- 3. Explain the various methods for determination of total and viable counts of microorganisms

SHORT ESSAYS (Answer any Eight)

- 4. Explain a method for determining MIC of antimicrobial agent
- 5. What are T and B cell? What is their role in immunity cells?
- 6. How do you preserve pure culture?
- 7. Write the principle and procedure of starch hydrolysis test
- 8. Explain cultivation of anaerobic microorganisms
- 9. Discuss in detail about bacterial nutrition
- 10. Write in detail mutation techniques
- 11. Explain the process of tyndalization
- 12. Write a note on laminar air flow system
- 13. Write the principle and procedure for ELISA test

SHORT ANSWERS

- 14. Plasmid and cosmid
- 15. Ideal characteristics of disinfectant
- 16. Pharmaceutical applications of monoclonal antibodies
- 17. What are mixed vaccines? Give two examples
- 18. Intellectual property rights
- 19. Spirochetes
- 20. Selective media
- 21. Advantages of plate count over direct cell count
- 22. Difference between bacteria and virus
- 23. Mechanism of UV sterilization technique

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10 x 2 = 20 Marks

2 x 10 = 20 Marks

8 x 5 = 40 Marks