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Rajiv Gandhi University of Health Sciences, Karnataka II Year B.Pharm Degree Examination - Sep 2012

Time: Three Hours Max. Marks: 70 Marks

PHARMACEUTICAL MICROBIOLOGY & BIOTECHNOLOGY (Revised Scheme 3)

Q.P. CODE: 2607

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Write the production and applications of monoclonal anti bodies
- 2. Write the principle and procedure involved in antiobiotic assay of Cephelexin
- 3. Write the production of penicillin by fermentation method

SHORT ESSAYS (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$

- Write the different methods used in isolation of bacteria
- 5. Write a note on bacteriological analysis of water
- 6. Write the steps involved in recombinant DNA technology
- 7. Write the cultivation of anaerobic bacteria
- 8. Write the validation methods for sterilization
- 9. Write the principle and procedure involved in flagella staining
- 10. Nutritional requirement of animal cell culture
- 11. What are cultures? Explain how pure cultures can be preserved

SHORT ANSWERS

 $10 \times 2 = 20 \text{ Marks}$

- 12. Plasmid and cosmid
- 13. Treatment of tuberculosis
- 14. Methods of conversion from toxin to toxoids
- 15. Radiation Sterilization
- 16. Simple Staining
- 17. What is lag time in sterilization?
- 18. Spirochetes
- 19. Difference between virus and bacteria
- 20. Examples of Gram (+) organisms
- 21. Tyndallization
