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## Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Pharm Degree Examination – August 2010

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. Describe phenol coefficient test. List out its merits and demerits
- 2. Write the principle and procedure involved in gram staining and acid fast staining with examples
- 3. Write the production of growth hormone by recombinant DNA technique

#### **SHORT ESSAYS (Answer any Six)**

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

- 4. Write the evaluation of preservatives in pharmaceutical preparations
- 5. What are sterilization indicators? Explain their uses
- 6. What are the factors affecting disinfectant activity?
- 7. Write the applications of monoclonal antibodies
- 8. Explain techniques of viable count
- 9. Applications of southern blotting technique
- 10. Write the principle and procedure of starch hydrolysis test
- 11. Explain cultivation of anaerobic microorganisms

### **SHORT ANSWERS**

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

- 12. Define sterilization and disinfectant
- 13. Difference between gram (+) and gram (-) organism cell wall
- 14. Advantage of plate count over direct cell count
- 15. Contribution of Louis Pasteur
- 16. Restriction enzymes
- 17. Selective media
- 18. Spirochetes
- 19. Plasmid
- 20. Pasteurization
- 21. Flagella