

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharma-D Degree Examination – Aug 2013

Time: Three Hours

Max. Marks: 70 Marks

## PHARMACEUTICAL MICROBIOLOGY

**Q.P. CODE: 2857**

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. Write the various methods of classification of bacteria.
2. Write the principle and procedure involved in microbial assay of streptomycin by IP method.
3. Discuss the Rideal Walker and Chick-Martin coefficient tests to evaluate disinfectants.

### SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

4. Why is air discharging important while autoclaving and how is it done?
5. With a neat diagram, explain the structure of bacteriophage.
6. *Enumerate different methods of isolation of pure culture and Explain any three methods.*
7. Write the principle and procedure involved in Gram's staining.
8. Add an account on radiation sterilization.
9. Write the principle and procedure involved in Indole production test.
10. What is immunity? Classify the types of immunity.
11. Write a note on total and viable counting.

### SHORT ANSWERS

10 x 2 = 20 Marks

12. Types of antigens
13. Volutin granules
14. *Enriched Media*
15. *Phages of bacterial growths curve*
16. Significance of antibiotic sensitivity test
17. *Mantoux test*
18. Toxoids
19. Booster dose
20. Ultra structure of flagella
21. Pharmaceutical uses of fungi

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