

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharma-D Degree Examination – Jan 2014

**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. What are antibodies and antigens? Explain antigen-antibody reactions with their significance.
2. Enumerate various tests used for determining the efficacy of disinfectants. Discuss phenol-coefficient test.
3. What are vaccines and sera? Classify and write in detail about their standardization.

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

**6 x 5 = 30 Marks**

4. Write lifecycle of Plasmodium vivax.
5. What is pure culture? Enlist the different methods for isolation of pure culture.
6. Describe the different techniques applied to identify bacteria.
7. Enumerate the merits and demerits of filtration sterilization.
8. Draw a neat, labeled diagram of HIV and write mode of transmission and prevention.
9. What are the major contributions of Louis Pasteur?
10. Write a note on Meningitis.
11. Explain the bacterial cell wall.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Epitope
13. PCR
14. H and O antigens
15. Viable count
16. Phagocytosis
17. Differential media
18. Thermophilic bacteria
19. Antiseptic
20. Anaerobic
21. Fungi

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