

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination – NOVEMBER 2015

**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. Define and classify immunity. Discuss the mechanisms of innate immunity.
2. Define total and viable count and describe various methods of viable count determination.
3. Describe different methods of evaluation of bacteriostatic activity of a disinfectant.

### SHORT ESSAYS (Answer any six)

**6 x 5 = 30 Marks**

4. Describe the composition of Bacterial cell wall. Give the difference between gram positive and gram negative bacteria.
5. Describe the bacterial growth curve.
6. Write the principle and procedure involved in southern blot test.
7. Microbiological assay of streptomycin.
8. Evaluation of preservatives in pharmaceutical preparations.
9. National immunization programme.
10. Explain ELISA test.
11. Explain life cycle of malarial parasite in human beings.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

12. Chick martin test
13. Booster dose
14. Pilli
15. Heating with a bactericide
16. VDRL test
17. Differences between exotoxins and endotoxins.
18. Application of agglutination.
19. Sterilization indicators.
20. Define decimal reduction time.
21. Bacteriophage.

\*\*\*\*\*