



# Rajiv Gandhi University of Health Sciences, Karnataka

Second Year Pharma-D Degree Examination – Feb/March 2011

**Time: Three Hours**

**Max. Marks: 80 Marks**

## PHARMACEUTICAL MICROBIOLOGY

### Q.P. CODE: 2857

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

#### LONG ESSAYS

**2 x 10 = 20 Marks**

1. With the help of a neat diagram explain an ideal bacterial cell
2. Enumerate various antigen-antibody reactions. Discuss in detail about Precipitation Tests
3. Explain the various factors affecting the disinfectant activity and mechanism of action

#### SHORT ESSAYS

**6 x 5 = 40 Marks**

4. Differentiate between Prokaryotic and Eukaryotic cell
5. Explain Viral Replication
6. Define sterilization and classify with suitable examples
7. Explain the methods of evaluation of preservatives in pharmaceutical preparation
8. Explain the Growth cycle of bacteria
9. Define media. Explain enriched and differential media with a suitable example
10. Explain the cultivation of anaerobic microorganism
11. Write a note on Shick's diagnostic test

#### SHORT ANSWERS

**10 x 2 = 20 Marks**

12. "O" and "H" antigens
13. Red heat
14. MIC
15. Spirochaetes
16. Toxoids
17. Booster dose
18. Doctrine of spontaneous generation
19. Mantoux test
20. Acid fast stain
21. Treatment of Tuberculosis

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