

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharma-D Degree Examination – Mar 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. What is culture media? Classify the types of culture media with suitable examples.
2. Discuss the design, mechanism and operation of autoclave. Write its application in hospitals.
3. Enumerate antigen antibody reactions. Explain Widal test in detail.

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

**6 x 5 = 30 Marks**

4. Explain the mode of action of mercurial's and alcoholic disinfectants.
5. Write the causative agent, mode of transmission and treatment of tuberculosis.
6. Discuss the various methods of viral cultivation.
7. Write the principle and procedure involved in starch hydrolysis test.
8. How is, antibiotic sensitivity test performed? Write its significance.
9. Explain briefly the official methods of sterility testing.
10. How are an anaerobics cultivated?
11. Explain the principle and interpretation of microbial assay of antibiotics.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Prokaryotic cell wall
13. Schick's test
14. Synchronous growth curve
15. Types of immunoglobulin
16. Attenuation
17. Minimum inhibitory concentration
18. Actinomycetes
19. Biological indicators
20. Passive immunity
21. Storage conditions of vaccines and sera

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