



## Rajiv Gandhi University of Health Sciences, Karnataka

II Year Pharm-D Degree Examination – NOV 2017

**Time: Three Hours**

**Max. Marks: 70 Marks**

### **PHARMACEUTICAL MICROBIOLOGY (RS & RS2)**

**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. Discuss in general the various types of antigen and antibody reactions. Add a note on their applications. (8+2)
2. Draw a neat diagram of virus and explain different stages of viral replication
3. Differentiate between gram positive and Gram negative cell wall. Add a note on principle and procedure of Gram's staining technique. (5+5).

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

**6 x 5 = 30 Marks**

4. Explain the factors affecting gaseous sterilization.
5. Write about sampling technique of sterility testing.
6. Explain microbiological assay of streptomycin by agar plate method.
7. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of tuberculosis.
8. Define immunity. Classify the types of immunity.
9. Define and classify culture media with examples
10. Enlist methods for isolation of pure culture.
11. Write principle, procedure and applications of Western Blotting Technique.

#### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Write bio-indicators for thermal sterilization.
13. What is 'Zone of inhibition'?
14. Write the mode of transmission of AIDS.
15. What is transport media? Give one example.
16. Differentiate between fungi and bacteria.
17. Write the preventive measures of malaria?
18. Write the Mode of transmission of Hepatitis
19. What is anaerobic media? Give examples.
20. Define disinfectant and antiseptic.
21. Write the Principle involved in Montoux test

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