



[LB 540]

AUGUST 2012

Sub. Code : 4061

**SECOND M.B.B.S. DEGREE EXAMINATION**  
**Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY**  
**AND SYSTEMIC BACTERIOLOGY**

*Q. P. Code : 524061*

Time : 180 Minutes

Maximum: 40 Marks

Answer ALL questions.

Draw Suitable diagrams wherever necessary

**I. Elaborate on:**

**Pages Time Marks**  
**(Max.) (Max.) (Max.)**

- |   |    |    |    |
|---|----|----|----|
| 1. Define and describe the properties of an Ideal Disinfectant .Enumerate the various Disinfecting agents and their applications. | 16 | 30 | 10 |
| 2. Classify Enterobacteriaceae. Write the pathogenesis, diseases caused and the lab diagnosis of Salmonella typhii infections.    | 8  | 20 | 5  |

**II. Write notes on:**

- |  |   |   |     |
|--|---|---|-----|
| 1. Bacterial growth curve.                 | 3 | 8 | 1.5 |
| 2. Mutations.                              | 3 | 8 | 1.5 |
| 3. Nucleic acid probes.                    | 3 | 8 | 1.5 |
| 4. Mechanisms of antibiotic resistance.    | 3 | 8 | 1.5 |
| 5. Innate immunity.                        | 3 | 8 | 1.5 |
| 6. Immunoglobulin M.                       | 3 | 8 | 1.5 |
| 7. T. lymphocytes.                         | 3 | 8 | 1.5 |
| 8. Erythroblastosis fetalis.               | 3 | 8 | 1.5 |
| 9. Non suppurative Streptococcal diseases. | 3 | 8 | 1.5 |
| 10. Lab diagnosis of Leptospirosis.        | 3 | 8 | 1.5 |

**III. Short Answers on:**

- |  |   |   |   |
|--|---|---|---|
| 1. Name two selective media for V.cholera.                 | 2 | 5 | 1 |
| 2. Mention the virulence factors of N.meningitidis.        | 2 | 5 | 1 |
| 3. Dosage schedule of Diphtheria vaccine.                  | 2 | 5 | 1 |
| 4. Mention the bacterial spore used in biological warfare. | 2 | 5 | 1 |
| 5. Name two Gram Negative Anaerobic bacilli.               | 2 | 5 | 1 |
| 6. IMVIC test.   | 2 | 5 | 1 |
| 7. Mention three stages of Plague.                         | 2 | 5 | 1 |
| 8. Name four non Cholera Vibrios.                          | 2 | 5 | 1 |
| 9. Mention the components of Pentavalent Vaccine.          | 2 | 5 | 1 |
| 10. Name the HACEK group of bacteria.                      | 2 | 5 | 1 |

\*\*\*\*\*

