

[LB 540]

AUGUST 2012

Sub. Code: 4061

SECOND YEAR MBBS DEGREE EXAM

**Paper I – GENERAL MICROBIOLOGY, IMMUNOLOGY AND
SYSTEMIC BACTERIOLOGY**

Q. P. Code: 524061

Time: 180 Minutes

Maximum: 40 Marks

Answer ALL questions in the same order.

I. Elaborate on:

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

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|---|----|----|----|
| 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:

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|--|---|---|-----|
| 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 |
