

MD (Microbiology)
Pre University Examination (2014 Batch)
Thursday, 20-04-2017
Paper I (General Microbiology & Immunology)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

- | | |
|---|-----|
| 1. Preservation of bacteria. | [10 |
| 2. Bacterial typing methods. | [10 |
| 3. Molecular mechanisms of drug resistance. | [10 |
| 4. Transposons. | [10 |
| 5. Principle and applications of fluorescent microscope. | [10 |
| 6. In use tests for chemical disinfectants. | [10 |
| 7. Immunological tolerance. | [10 |
| 8. Superantigens. | [10 |
| 9. Biological effects of complement. | [10 |
| 10. Role of antigen presenting cells in antigen processing and MHC restriction. | [10 |

MD (Microbiology)
Pre University Examination (2014 Batch)

Saturday, 22-04-2017

Paper II (Bacteriology & Mycology)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

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|---|-----|
| 1. Campylobacter infections. | [10 |
| 2. Laboratory diagnosis of diphtheria. | [10 |
| 3. Enteropathogenic Escherichia coli. | [10 |
| 4. Cholera vaccine. | [10 |
| 5. Plague in India. | [10 |
| 6. Drug resistance in tuberculosis. | [10 |
| 7. Pathogenesis of rheumatic fever. | [10 |
| 8. Etiology, pathogenesis and laboratory diagnosis of Mycetoma. | [10 |
| 9. Sporotrichosis. | [10 |
| 10. Opportunistic fungal infections. | [10 |

MD (Microbiology)
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Monday, 24-04-2017

Paper III (Virology & Parasitology)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

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|---|-----|
| 1. Laboratory diagnosis of congenital viral infections. | [10 |
| 2. Interferons. | [10 |
| 3. Slow viral diseases. | [10 |
| 4. Dengue- recent advances in vaccine. | [10 |
| 5. Prevention and control of HCV infections. | [10 |
| 6. Serodiagnosis of Malaria. | [10 |
| 7. Post Kala Azar Dermal Leishmaniasis (PKDL) | [10 |
| 8. Babesiosis | [10 |
| 9. Balamuthia encephalitis. | [10 |
| 10. Visceral larva migrans | [10 |

MD (Microbiology)
Pre University Examination (2014 Batch)
Wednesday, 26-04-2017
Paper IV (Recent Advances & Applied Science)

Time: 3 Hours]

[Maximum Marks: 100

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

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|---|-----|
| 1. Packing and shipping of infectious materials. | [10 |
| 2. Ventilator associated events. | [10 |
| 3. Electron microscopy of viruses- TEM versus SEM. | [10 |
| 4. Bundle approach in hospital infection control | [10 |
| 5. Lobomycosis. | [10 |
| 6. Recent trends in vaccine delivery systems | [10 |
| 7. Newer guidelines of biomedical waste management. | [10 |
| 8. ELISPOT | [10 |
| 9. Transgenic animals. | [10 |
| 10. Present status of polio immunization in India. | [10 |