QP Code:104109	Reg.No.:
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PG Degree Examinations in Microbiology (MD) - May 2014

Paper IV - Applied Microbiology and Recent Advances in Microbiology

Time: 3 hrs Max marks:100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (20)

1. Define pentavalent vaccine. Explain in detail about the various developments in vaccine production and its administration.

Short essays: (8x10=80)

- 2. How do you establish an efficient biomedical waste management sustainable programme in a tertiary care hospital.
- 3. Describe in detail non-cultivable techniques used in the diagnosis of micro organisms
- 4. Define avian influenza. Describe the epidemiology and recent infection due to avian influenza virus.
- 5. Give an account on the recent advances in diagnosis of MDR TB.
- 6. What are the various control measures as a microbiologist you will adopt to control nosocomial infection acquired from hospital sources.
- 7. Explain the various immune fluorescence methods and its application in microbiological diagnosis.
- 8. Describe the various biological safety cabinets used for the confinement of various categories of pathogens.
- 9. What is genetic cloning. Describe its role in genetic engineering.
