

QP Code:101109

Reg.No.:.....

PG Degree Examinations in Microbiology (MD) - May 2014

Paper I – General Microbiology and Immunology

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essays: (20)

1. Describe the principles and application of fluorescent microscope. Add a note on the recent developments in automation in microscopy.

Short essays: (10x8=80)

2. Classify hypersensitivity reactions. Discuss the type III hypersensitivity reactions.
3. Describe the pathogenesis of autoimmunity.
4. Discuss carbapenemases and its role in bacterial drug resistance.
5. Explain human microbiome.
6. Enlist the different isothermal methods of DNA amplification. Describe LAMP.
7. Describe type III secretion system.
8. Enlist the different gaseous methods of sterilization. Add a note on ethylene oxide method.
9. Describe bio film, its formation and role in the pathogenesis of infection.
