

QP Code:104109

Reg.No.:.....

PG Degree Examinations in Microbiology (MD) - May 2013

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. Classify different types of PCR and explain multi-locus sequence typing(MLST) PCR.

Short essays:

(8x10=80)

2. How do you establish hospital infection control committee and monitor the hospital infection periodically in a tertiary care hospital of 2000 bed strength.
3. Outline the working principle, use of flow cytometry and its application in stem cell marker detection.
4. What are the various screening and confirmatory methods to detect ESBL and metallo-beta lactamase
5. Name the zoonotic parasitic diseases. Describe the clinical features and laboratory diagnosis of congenital toxoplasmosis.
6. Define food poisoning. Describe the role of salmonella in food poisoning and your line of plan and action to manage it.
7. Explain the role of bacteriophage typing in epidemic management of a disease.
8. How do you establish a microbiology laboratory with good quality control and quality assurance.
9. Name the various immunoblotting techniques and explain their uses in detection of various organisms.
