QP	Code:104109	Reg.No.:
		3

## PG Degree Supplementary Examinations in Microbiology (MD) - November 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)

 Discuss the epidemiology and laboratory diagnosis of most common zoonotic diseases in India. Add a note on the development of vaccines against these diseases.

Short essays: (8x10=80)

- 2. What is MALDI-TOF. Mention its principle and uses in clinical microbiology.
- 3. Discuss newer methods in bacterial examination of water.
- 4. Sepsis markers.
- 5. What is quality control. Describe the various methods adopted for internal quality control in microbiology.
- 6. Discuss quality control in ELISA.
- 7. Discuss newer vaccine development and delivery techniques
- 8. Describe newer methods in anti microbial susceptibility testing.
- 9. Discuss the uses of recombinant antigens in diagnostic microbiology.

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