

135-NR

M.D. DEGREE EXAMINATION – APRIL, 2014

MICROBIOLOGY

Paper-IV : Applied Microbiology and Recent Advances

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Discuss Southern Blot technique and its role in diagnostic Molecular Microbiology.
- 2) ELISPOT and its role in research Microbiology.
- 3) Use of Flow Cytometer in diagnostic Microbiology.
- 4) Discuss recent advances in culture methods in diagnostic virology.
- 5) Discuss automation in Blood Culture techniques in diagnostic Microbiology.
- 6) Discuss role of LAMP: Isothermal Loop Amplification techniques in diagnostic Microbiology.
- 7) Discuss recent advances in viral vaccine with special reference to Dengue and Swine Flu.
- 8) Discuss laboratory methods of detection methods of Metallo β -lactamases.
- 9) Role of microbiologist in control of nosocomial infections in ICU.
- 10) Give an account of MERS (Middle East Respiratory Syndrome) virus and its detection methods.
