QP Code:104109	Reg.No.:
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PG Degree Supplementary Examinations in Microbiology (MD) - November 2015

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. Describe the composition, role and duties of hospital infection control committee. Describe in detail the role of microbiologist in surveillance and control of hospital associated infections.

Short essays: (8x10=80)

- 2. Discuss real time PCR and its applications in clinical microbiology.
- 3. Discuss the genetically engineered vaccines with respect to newer vaccine strategies.
- 4. Enumerate molecular typing methods of human pathogens. Describe briefly about ribotyping.
- 5. Discuss recent automation in microbiology for rapid detection of microbial pathogens.
- 6. Discuss the role of research methodology and statistical analysis in compilation and meaningful outcomes of microbiological data.
- 7. Discuss animal and human ethics involved in microbiological research work. What is CPCSEA. What is its composition and who is the controlling authority.
- 8. Describe various steps involved in investigation of a case of food poisoning
- Describe the various immune fluorescence methods and its application in microbiological diagnosis
