

**QP Code:104109**

**Reg.No.:.....**

**PG Degree Supplementary Examinations in Microbiology (MD) -  
November 2017**

**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. Discuss the epidemiological typing methods.

**Short essays:**

**(8x10=80)**

2. Bioterrorism.
3. Rota viral vaccines
4. Automation in microbiology
5. Super antigens.
6. Antibiotic stewardship.
7. Candida auris
8. Laboratory diagnosis of helicobacter pylori infection.
9. XDR TB

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