

**QP Code:104109**

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

**PG Degree Supplementary Examinations in Microbiology (MD)  
April 2026**

**Paper IV - Applied Microbiology and Recent Advances in Microbiology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay: (20)**

1. Discuss a plan for management of a Pandemic using the recent COVID 19 pandemic as your reference. Explain the role of the Clinical Microbiologist in a pandemic. Add a note on Transmission based precautions.

**Short essays: (8x10=80)**

2. National One Health Program
3. Discuss the escalation and De-escalation of antibiotic therapy
4. Discuss on the plan and functioning of CSSD
5. Discuss the principle and uses of Chemiluminescence Immunoassay (CLIA)
6. Discuss the Nipah virus outbreak
7. Discuss on next generation sequencing with applications
8. Antifungal resistance patterns and detection methods
9. Discuss the diagnosis of Healthcare associated Blood stream infections

\*\*\*\*\*