

QP Code:104109

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Microbiology
(MD) June 2024**

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 the core elements of an antimicrobial stewardship program. Discuss the steps to prepare an antibiogram and its role in antimicrobial stewardship. Discuss the opportunities and challenges of rational antibiotic use in a medical college hospital.

Short essays:

(8x10=80)

2. Discuss techniques and methods to improve turn around time in a microbiology laboratory with suitable examples.
3. Leprosy control in India
4. Quality control in microbiology laboratory
5. Opportunities and implications of microbiological surveillance in a healthcare institution
6. Vaccines for adults
7. Transmission based precautions
8. Bioterrorism
9. Discuss a Plan for implementing Infection prevention and control program at a 500 bedded hospital.
