

**PG Degree Supplementary Examinations in Microbiology (MD)**  
**January 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. Classify biological agents based on biohazard category. Discuss various biosafety measures in laboratory. Add a note on disinfection of biosafety cabinets.

**Short essays:**

**(8x10=80)**

2. Bacteriology of air
3. Laboratory accreditation
4. Hospital antibiotic policy and its importance
5. Give an account of infectious disease outbreaks in India in the last 5 years
6. Role of MALDI – TOF in diagnostic microbiology
7. Vaccine delivery system
8. Post exposure prophylaxis
9. Automation in microbiology

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