

First Year B.Sc MLT Degree Regular Examinations October 2025
Basic Microbiology & Immunology
(2024 Scheme)

Time: 2 Hours

Total 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*

Essays

(2x10=20)

1. Define infection. Write briefly about various bacterial virulence factors
2. Classify hypersensitivity reactions. Describe in detail about Type I hypersensitivity reaction

Short notes

(10x5=50)

3. Bacterial cell wall
4. Bio-Safety cabinets
5. Passive immunity
6. Vaccines
7. Sterilisation by moist heat
8. Differential staining
9. IgG
10. Differences between exotoxins and endotoxins
11. Fimbriae of bacteria
12. Briefly describe any two physical methods for sterilization

Answer briefly

(10x3=30)

13. Koch's postulates
14. Haptens
15. In use test
16. Adjuvants
17. Sandwich ELISA
18. Natural killer cells
19. Superantigens
20. Cytokines
21. Inspissation
22. Plasmids

CORRECTION / NO-CORRECTION FILE
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QPCODE: 124012

Dated: 29-10-2025

Time of examination corrected as '3 hours'.

Question No.12

Modified as "Briefly describe any two filtration methods for sterilization."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS