

**First Year B.Sc MLT Degree Regular/Supplementary Examinations  
November 2024**

**Basic Microbiology and Immunology**

**(2016 Scheme)**

**Time: 3 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*

**Essay**

**(2x10=20)**

1. Describe different sources of infection and modes of transmission of infections. (3+7)
2. Define disinfection. Discuss the different types of chemical agents used for disinfection and their mode of action. (2+4+4)

**Short notes**

**(10x5=50)**

3. Pasteurisation
4. Koch's Postulates
5. Bacterial virulence factors
6. Ultraviolet radiation
7. Cell mediated immunity
8. Hot air oven
9. Bacterial Flagella.
10. Monoclonal antibody
11. L-forms
12. Major histocompatibility complex

**Answer briefly**

**(10x3=30)**

13. Draw a neat labelled diagram of bacterial cell.
14. Natural killer cells
15. Adjuvants
16. Volutin granules
17. Plasma Sterilization
18. Heterophile Antigens
19. Immunoglobulin A
20. Name three live vaccines
21. Negative staining
22. Plasmid

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