

QP CODE: 114012

Reg. No: .....

**First Year B.Sc MLT Degree Supplementary Examinations July 2023**

**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. Define sterilisation. Classify sterilisation methods. Describe in detail about the applications of autoclave in hospital. Add a note on plasma sterilisation (1+3+3+3)
2. Enumerate antigen - antibody reactions. Describe in detail about ELISA with applications (3+7)

**Short notes**

**(10x5=50)**

3. Staining of spirochetes
4. Bacterial spore and its applications
5. Bio safety cabinet IIA
6. Inspissation
7. Testing for determining efficacy of disinfectants
8. Passive immunity
9. Biological effects of complement
10. Autoimmunity
11. Sterilisation control
12. Louis Pasteur

**Answer briefly**

**(10x3=30)**

13. Membrane filter
14. Alcohol as disinfectant
15. Ultraviolet radiation
16. Cytokines
17. Name three live vaccines
18. Super antigens
19. Direct immunofluorescence
20. Natural killer cell
21. Spheroplast
22. Tests for bacterial motility

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