

**QP CODE: 104012**

**Reg No:.....**

**First Year B.Sc MLT Degree Supplementary Examinations March 2018**  
**BASIC MICROBIOLOGY & IMMUNOLOGY**

**(Common for 2010 and 2015 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Define sterilization. Describe in detail the principle, working and controls of autoclave.
2. Name the various classes of immunoglobulins. Describe in detail the structure and functions of IgG.

**Short notes**

**(10x5=50)**

3. Agglutination reactions
4. Differential staining
5. Cytokines
6. Differences between prokaryotic and eukaryotic cells
7. Virulence factors
8. Sporocidal disinfectants
9. Differences between active and passive immunity
10. Bacterial flagella
11. Differences between live and killed vaccines
12. Monoclonal antibodies

**Answer briefly**

**(10x3=30)**

13. In-use test
14. Antiseptics
15. L-forms of bacteria
16. Koch's postulates
17. Natural killer cells
18. Opportunistic infection
19. Inspissation
20. Biological effects of complement
21. Cold sterilization
22. Heterophile antigens

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