

**First Year B.Sc MLT Degree Supplementary Examinations  
January 2017**

**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 and disinfection. Describe the principle, types and operating procedure of laboratory autoclave (3+7 = 10)
2. Define antibody. Describe in detail about the structure and functions of various types of antibodies. (10)

**Short notes**

**(10x5=50)**

3. Bacterial spore
4. Hot air oven
5. Modes of transmission of infection
6. Monoclonal antibodies
7. Difference between active and passive immunity
8. Differential staining
9. Testing of disinfectants
10. Major histocompatibility complex (MHC)
11. Delayed type of hypersensitivity
12. Gaseous disinfectants

**Answer briefly**

**(10x3=30)**

13. Koch's postulates
14. Membrane filter
15. Walk in incubator.
16. Nosocomial infection
17. Prozone phenomenon
18. T cells
19. Negative staining
20. Biological effects of complement
21. Cold chain storage
22. Inspissation