

First Year B.Sc MLT Degree Supplementary Examinations August 2019
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. Classify bacteria based on morphology. Describe the structure of bacterial cell, with the help of a diagram, mentioning the functions of components (4+6)
2. Classify immunity. Describe in detail artificial acquired immunity (4+6)

Short notes**(10x5=50)**

3. Theories of immune response
4. Describe complement components and their properties
5. Types and properties of T lymphocytes
6. Principles of classification and applications of biological safety cabinets
7. Classify methods for sterilization and disinfection with examples of each type
8. Immunoglobulins and their properties
9. Classification of microbes on the basis of hazards
10. Agglutination reactions
11. Type II hypersensitivity
12. Compare properties of live vaccines and killed vaccines

Answer briefly**(10x3=30)**

13. Examples of adjuvants
14. Name four autoimmune diseases
15. Name four examples of precipitation reactions
16. Minimum inhibitory concentration of disinfectants
17. Methods for demonstration of bacterial capsule
18. Hot air oven
19. Sterilization of laboratory glassware
20. Principle of radio-immuno assay
21. Define the terms: sterilization, disinfection and antisepsis
22. Water bath
