

**First Year B.Sc MLT Degree Regular/Supplementary Examinations
March 2022**

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 disinfection and antisepsis. Classify the disinfectants. Describe in detail about halogens (2+2+6)
2. Enumerate different antigen – antibody reactions. Describe in detail about agglutination reactions and its applications (4+6)

Short notes

(10x5=50)

3. Capsule staining
4. Cell wall of Gram positive bacteria
5. Bio safety cabinet II A
6. Hot air oven
7. Intermittent sterilisation
8. Artificial acquired immunity
9. Monoclonal Antibody
10. Type 1 Hypersensitivity
11. Testing for determining efficacy of disinfectants
12. Robert Koch

Answer briefly

(10x3=30)

13. Membrane filter
14. Incineration
15. Gamma radiation
16. Interferon
17. Name three killed vaccines
18. Heterophile antigens
19. Indirect immunofluorescence
20. B cell
21. Immunoglobulin G (IgG)
22. Bacterial flagella
