

**First Year B.Sc MLT Degree Supplementary Examinations  
February 2019**

**Basic Microbiology and Immunology**

**(2016 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all questions.
- Draw diagrams wherever necessary.

**Essay**

**(2x10=20)**

1. Describe in detail a bacterial cell and its appendages with the help of a diagram. Add a note on cell wall deficient forms. (8+2)
2. List the antigen-antibody reactions. Describe in detail the application of agglutination reactions in the clinical laboratory. (2+8)

**Short notes**

**(10x5=50)**

3. Hypersensitivity
4. Chick Martin test
5. Classify microbes on the basis of hazards and methods of preventing infection
6. T cells
7. Koch's postulates
8. Gram staining
9. Segregation, decontamination of equipments and waste in microbiology
10. Principle of ELISA and its applications
11. Autoimmunity
12. Autoclave and its uses in a hospital

**Answer briefly**

**(10x3=30)**

13. Fluorochrome staining
14. Wet film examination
15. Bacterial vaccines
16. Quality control in staining
17. B.O.D incubator
18. Sporocidal disinfectants
19. Bacterial filters
20. Hypo chlorites
21. Alexander Fleming
22. Define passive immunity. Give two examples.

\*\*\*\*\*