

**First Year B.Sc MLT Degree Regular/Supplementary Examinations  
March 2021**

**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. Classify incubators. Describe in detail the principle and application of anaerobic incubators (3+7)
2. Define and classify hypersensitivity. Describe in detail about Type II hypersensitivity (1+2+7)

**Short notes**

**(10x5=50)**

3. Flagella staining
4. Cell wall of Gram negative bacilli
5. Biosafety cabinet III
6. Gaseous disinfectants
7. Inspissation
8. Natural acquired immunity
9. Agglutination
10. Alternate compliment pathway
11. Chick Martin test
12. Anton Van Leeuwenhoek

**Answer briefly**

**(10x3=30)**

13. Candle filter
14. Ethylene oxide
15. Name three sporicidal agents
16. Tumour necrosis factor
17. Name three viral vaccines
18. Haptens
19. Neutralisation tests
20. T helper cell
21. L form
22. Cytoplasmic membrane

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