

QP CODE: 114012

Reg. No:

**First Year B.Sc MLT Degree Supplementary Examinations
February 2020**

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. What is biohazard. Classify microbes on the basis of biohazards. Describe the principle of bio safety cabinet level II and its application. (1+3+6)
2. Define and classify immunity. Describe acquired immunity in detail (2+2+6)

Short notes

(10x5=50)

3. Ziehl Neelsen staining
4. Capsule
5. Difference between prokaryotic and eukaryotic cell
6. Gaseous sterilization
7. Determinants of virulence in bacteria
8. Counter current Immuno electrophoresis
9. Type I hypersensitivity
10. Activation and regulation of complement pathway
11. Central lymphoid organs
12. Monoclonal antibodies

Answer briefly

(10x3=30)

13. Contributions of Louis Pasteur
14. Glutaraldehyde
15. Immunoglobulin G
16. Killed vaccines
17. Heterophile antigens
18. Seitz filter
19. Carriers
20. Decimal reduction time (D value)
21. Biological Oxygen Demand (BOD) incubator
22. Nosocomial infection – define with examples
