

QP CODE: 114012

Reg. No:

First Year B.Sc MLT Degree Supplementary Examinations May 2024

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. Draw a bacterial cell. Differentiate between a prokaryotic and eukaryotic cell.
Compare between a gram-positive and gram-negative bacterial cell wall (3+3+4)
2. Define and classify immunity. Describe acquired immunity in detail (2+2+6)

Short notes

(10x5=50)

3. Capsule staining
4. Bacterial spore and its applications
5. Plasma sterilization
6. Anaerobic incubator
7. Type I Hypersensitivity reaction
8. Disinfection of biosafety cabinets
9. Pasteurisation
10. Agglutination and its applications
11. Exotoxins
12. Quality control in staining

Answer briefly

(10x3=30)

13. Cell wall deficient forms
14. Anton Von Leeuwenhoek
15. Name three live attenuated vaccines
16. Sources of infection
17. Plasmids
18. Modes of transmission of infection
19. Staining of spirochetes
20. Hapten
21. IgG
22. Direct immunofluorescence
