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Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc.(MLS) (Sem.–1)**  
**GENERAL MICROBIOLOGY**

Subject Code : BMLS-102-18

M.Code : 75259

Date of Examination : 20-06-2025

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION - A**

**1. Answer briefly :**

- a) Briefly outline safety protocols in clinical microbiology.
- b) Enumerate the key instruments employed in clinical microbiology.
- c) Provide a concise overview of electron microscopes.
- d) Summarize the fundamental principles of sterilization.
- e) Provide a brief explanation of disinfectants.
- f) Define and provide a short explanation of biochemical waste.
- g) Highlight the main characteristics of prokaryotes.
- h) List the essential environmental conditions for microbial growth.
- i) Explain the concept of basal media in a few sentences.
- j) Describe the primary applications of aerobic media in brief.

## **SECTION - B**

2. Describe the bacterial growth curve and its significance.
3. Explain the classification of culture media used in microbiology.
4. Elaborate on the management of biochemical waste in microbiological laboratories.
5. Discuss the characteristics that define quality disinfectants and outline precautions to be taken when using them.
6. Outline the procedures for the care and maintenance of equipment employed in clinical microbiology.

## **SECTION - C**

7. Explain the types and underlying principles of various sterilization methods.
8. Provide a detailed explanation of the principles and operational mechanisms of microscopes.
9. Describe in depth the procedures for the care and handling of glassware in the context of clinical microbiology.

**NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.**