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Total No. of Pages : 02

Total No. of Questions : 11

M.Sc. (Medical Microbiology) (Sem.-1)

CLINICAL MICROBIOLOGY

Subject Code : MMB-102-21

M.Code : 91450

Date of Examination : 18-06-2025

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **EIGHT** questions carrying **FIVE** marks each and students have to attempt any **SIX** questions.
3. **SECTION-C** will comprise of two compulsory questions with internal choice in both these questions. Each question carries **TEN** marks.

SECTION-A

1. Answer briefly :

- a) Features of prokaryotes.
- b) Study of parasites.
- c) Role of mesosomes.
- d) Structure of flagella.
- e) Basic principles of microscopy.
- f) Definition and management of bio waste.
- g) How antibiotic sensitivity tests are conducted?
- h) Steps in processing clinical specimens.
- i) Bacteria found in soil
- j) Different types of disinfectants.

SECTION - B

2. What does clinical microbiology encompass?
3. How would you classify bacteria based on morphology?
4. What are the functions of gram-positive bacteria?
5. Discuss the management practices for biowaste.
6. What are the uses of phase contrast microscopy?
7. What sets aerobic and anaerobic cultures apart?
8. Briefly discuss the bacteriology related to food.
9. How is nosocomial infection diagnosed in the laboratory?

SECTION - C

10. Outline the quality control procedures for sterilization.

OR

Describe the quality checks for disinfectants.

11. Elaborate on the workings and applications of light microscopy.

OR

Discuss the factors that influence microbial growth.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.