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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 : 17-01-23**

**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) What is virology with example?
- b) Classify prokaryotes.
- c) What is function of gram-negative bacteria?
- d) Write the importance of phase contrast microscopy.
- e) Enlist the types of disinfectant.
- f) Define nosocomial infection.
- g) Mention the factor affecting microbial growth.
- h) What is synchronous growth?
- i) What is bacteriology of water?
- j) Enlist the physical method for sterilization.

### **SECTION-B**

2. Discuss in detail about history of microbiology.
3. Write about various culture medium used for the growth of bacteria.
4. Explain about the medical importance of antibiotic sensitivity test.
5. Draw a well labelled diagram of bacteria with function of capsule and flagella.
6. Write down the application of fluorescence microscopy.
7. Write down the various methods for evaluating disinfectant.
8. Write about growth kinetics.
9. Describe about bio waste management.

### **SECTION-C**

10. Describe the mode of action and importance of multiple drug mechanism.

**OR**

Write various applications of microbiology by taking current examples.

11. Describe about the normal microbial flora of the human body with its processing.

**OR**

Describe about chemical methods used for sterilization.

**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.**