

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 11**

**M.Sc. (Medical Microbiology) (Sem.-2)**

## SYSTEMIC BACTERIOLOGY

**Subject Code : MMB-201-21**

**M.Code : 92124**

**Date of Examination : 12-12-22**

**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 the following :**
  - a. Give two examples for gram positive cocci.
  - b. Write the morphological characteristics of acid-fast staining.
  - c. What are epidemiological markers?
  - d. Write the morphological characteristics of pseudomonas aeruginosa.
  - e. How to control the community infection?
  - f. Define Enterobacteriaceae.
  - g. Give pathogenicity for rickettsia.
  - h. Give two examples for gram negative cocci.
  - i. Enlist the laboratory diagnosis for mycobacterium leprae.
  - j. Write the morphological characteristics of listeria.

### SECTION-B

2. Discuss about normal flora of human body with their control and prevention of community infection.
3. Elaborate the diagnostic test for gram positive bacteria *Clostridium*.
4. How to identify the *Mycobacterium tuberculosis* with their pathogenesis?
5. Explain the morphological characteristics for *Hemophilus influenza*.
6. Write the cultural characteristics of *E. Coli*.
7. Give the laboratory diagnosis for *Citrobacter*.
8. Differentiate the morphological characteristics of *Rickettsia* and *Salmonella*.
9. Write the pathogenesis for *Chlamydiae*.

### SECTION-C

10. Elaborate about epidemiology and control of community infection.

**OR**

Explain in detail account of cultural and morphological characteristics of actinomycetes.

11. Explain in detail about the morphological characteristics and pathogenicity of *H. pylori*.

**OR**

Elaborate about the laboratory diagnosis of Enterobacteriaceae by taking any one example.

**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.**