

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Sc.(MLS) (Sem.-2)**  
**SYSTEMATIC BACTERIOLOGY**  
**Subject Code : BMLS-202**  
**M.Code : 48056**  
**Date of Examination : 24-12-22**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION 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. Write a note on :**
- Write three differences between Classical vibrio and Eltor Vibrio.
  - How do you collect blood for culture?
  - Name three organisms causing food poisoning.
  - How will you maintain stock cultures?
  - Name three enrichment media and its use.
  - Write a short note on Widal test.
  - What is Enriched media?
  - How will you prepare a blood smear?
  - Name some Spore forming bacteria.
  - What is citrate utilization test?

### **SECTION-B**

2. Classify bacteria based on morphology.
3. Discuss the clinical feature and types of rickettsial infections
4. Describe procedure of bound and free coagulase tests.
5. Describe the cultural characters of *Escherichia coli*.
6. What is Capsule? Name the stains used to diagnosis the capsule.

### **SECTION-C**

7. How do you classify culture media? Describe selective media for culture of salmonella.
8. Elaborate on various biochemical reactions used in identification of bacterial infections.
9. Give the morphology, cultural characters, pathogenicity and lab diagnosis of *Vibrio cholera*.

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