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Total No. of Questions : 09

SYSTEMATIC BACTERIOLOGY

Subject Code : BMLS-201-18

M.Code : 75897

Time : 3 Hrs.

Max. Marks : 60

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 notes on :

- A) Principle of Gram staining.
- B) MacConkey agar.
- C) Name three Gram positive bacilli.
- D) India Ink preparation
- E) Laboratory Diagnosis of *M. tuberculosis*.
- F) Germ Tube Technique.
- G) Name the organisms that can cause Enteric fever.
- H) Leptospirosis.
- I) Enrichment media.
- J) Anaerobic culture methods.

SECTION-B

2. Describe the morphology & culture characteristics of E. coli.
3. Describe the pathogenesis and lab diagnosis of Salmonella typhi.
4. Write a note on ZN staining method.
5. How do you perform and interpret catalase test?
6. Describe the laboratory diagnosis of M. leprae.

SECTION-C

7. What is BACTEC system? Briefly explain the different methods for the cultivation of bacteria.
8. Briefly explain the various biochemical reactions performed to identify the bacteria.
9. Elaborate on various anaerobic culture methods with special reference to Mc-Intosh Felde's Anaerobic jar.

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