

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Medical Lab Sciences) (Sem-2)

SYSTEMATIC BACTERIOLOGY

Subject Code : BMLS-201-18

M.Code : 75897

Date of Examination : 09-06-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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 notes on :**
 - a) Seed culture
 - b) Gram Staining
 - c) Capsule staining
 - d) Urease test
 - e) Citrate utilization test
 - f) H₂S production
 - g) Diagnosis of Haemophilus
 - h) Spirochetes
 - i) Mycoplasma
 - j) Fermentation.

SECTION-B

2. Write the procedure and principle of Albert stain.
3. Explain the interpretation of Voges Proskauer and the TSI test.
4. Discuss pathogenies and laboratory diagnosis of pneumococcus.
5. Write morphological and cultural characteristics of Clostridium.
6. Write a note on Ureaplasma.

SECTION-C

7. Elaborate on the procedure and interpretation of the indole test for the identification of bacteria with examples.
8. What is biochemical testing and explain the biochemical characteristics of Neisseria gonorrhoea and Neisseria meningitidis?
9. Explain the culturing procedure for seeding a plate with examples.

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.