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**School of Medical and Allied Sciences**

**B.Sc Medical Lab Technology  
Mid Term Examination - Nov 2023**

**Duration : 90 Minutes  
Max Marks : 50**

**Sem III - L1UD301T - Systematic Bacteriology**General Instructions

*Answer to the specific question asked*

*Draw neat, labelled diagrams wherever necessary*

*Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Illustrate the principle and procedure of the Albert stain and explain how it helps in bacterial identification. K2 (2)
  - 2) Recall the names of some biochemical tests used for the identification of different bacteria. K1 (3)
  - 3) Demonstrate the principle and procedure of the carbohydrate fermentation test and its role in bacterial identification. K2 (4)
  - 4) Summarize the key characteristics, classification, and pathogenesis of Staphylococcus bacteria. K2 (6)
  - 5) Apply your knowledge of staining techniques to explain the significance of Gram staining in bacteriology. K3 (6)
  - 6) Organize the definition, classification, and pathogenesis of Neisseria gonorrhoea and Neisseria meningitis. K3 (9)
  - 7) Analyze the term variation in shape of bacteria. K4 (8)
  - 8) Categorize variation in shape and size of colonies of bacteria. K4 (12)
- OR**
- Categorize the term factor deficiency K4 (12)