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## School of Computing Science and Engineering

Bachelor of Computer Applications

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 50

### Sem III - C2UB306T - Basics of Biometrics

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) Outline the classification of fingerprints. K2 (2)
- 2) Can you define biometric modalities and provide examples? K1 (3)
- 3) Explain the importance of biometrics in modern security systems K2 (4)
- 4) Illustrate the concept of minutiae in fingerprint matching. K2 (6)
- 5) Identify and explain the relationship between biometrics and access control? K3 (6)
- 6) Develop the process of biometric template matching in access control systems. K3 (9)
- 7) Classify and Connect the principles of biometrics to real-world scenarios in law enforcement. K4 (8)
- 8) Distinguish between face recognition algorithms based on feature extraction and template matching. K4 (12)

**OR**

- Examine how minutiae-based fingerprint matching contributes to the reliability of a biometric system. K4 (12)