

School of Computing Science and Engineering

Bachelor of Computer Applications
Summer Term Examination – July - August 2024

Duration : 180 Minutes
Max Marks : 100

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

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| 1) | Recall the key components of fingerprint verification. | K1(2) |
| 2) | rephrase the Iris Polar Mapping. | K2(4) |
| 3) | Illustrate the Block diagram of Biometrics system. | K2(6) |
| 4) | Construct the key criteria for selecting a suitable biometric modality for a given application. | K3(9) |
| 5) | utilize the classification of face recognition. | K3(9) |
| 6) | How do contact-based and non-contact-based iris capture devices differ in terms of usability and accuracy? | K5(10) |
| 7) | What considerations should be taken into account for the deployment of a large-scale biometric system? | K4(12) |
| 8) | Determine the impact of biometric systems on the field of forensics, considering their role in evidence collection and analysis. Discuss the challenges and benefits associated with their use. | K5(15) |
| 9) | Discuss the basic steps involved in an iris recognition algorithm | K5(15) |
| 10) | Identify and Elaborate a set of solutions to overcome the challenges associated with the integration of biometric systems in forensic investigations | K6(18) |