

CBCS SCHEME

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18BM734

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 Biometric Systems

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss the identification based on Finger prints , Face , Iris and Ear. (10 Marks)
- b. Write the comparison of Biometrics Technologies. (10 Marks)

OR

- 2 a. Discuss briefly about the acquisition and representation of research issues. (10 Marks)
- b. Write the novel applications of Biometrics. (10 Marks)

Module-2

- 3 a. Discuss the matching verification and identification of feature types of finger print verification. (10 Marks)
- b. Describe the image enhancements of Image Processing and Verification. (10 Marks)

OR

- 4 a. Describe briefly about Multimodal biometrics with the tabular column. (10 Marks)
- b. Write the approaches of face recognition about manually and automatically defining features and Statistical and Non – statistical methods. (10 Marks)

Module-3

- 5 a. Discuss briefly about the system operation of hand geometry base verification. (10 Marks)
- b. Write the applications of hand geometry base verification. (10 Marks)

OR

- 6 a. Give the introduction of recognizing by Iris patterns. (10 Marks)
- b. Distinguish Identification versus Verification. (10 Marks)

Module-4

- 7 a. Discuss Retina / Choroids Human descriptor. (10 Marks)
- b. Discuss briefly about RI new camera. (10 Marks)

OR

- 8 a. Explain the types of security attacks. (10 Marks)
- b. Write the applications of keystroke dynamics using hold times a features. (10 Marks)

Module-5

- 9 a. Write a brief note on Multimodal Biometrics for verification. (10 Marks)
- b. What is Biometrics? Write the advantages of Biometrics. (10 Marks)

OR

- 10 a. Distinguish Biometric centralization Vs Biometric Balkanization. (10 Marks)
- b. Write a brief note on Privacy concerns in Biometrics. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. $42+8=50$, will be treated as malpractice.