300812(33)

B. E. (Eight Semester) Examination, April-May 2021

(New Scheme)

(CSE Branch)

BIOMETRICS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) is compulsory from each questions. Attempt any two parts from (b), (c) and (d).

Unit-I

1. (a) Name the performance metrics of biometrics system.   2

(b) Explain the basic working architecture of biometrics system. 7

(c) What are the applications and benefits of biometrics system? 7

(d) Give the important role of biometric identification and verification. Explain in details. 7

Unit-II

2. (a) Where is contractive transformation method is used? 2

(b) Explain the reasons for selecting the eigenfaces method for face recognition and also explain this method. 7

(c) What is the most suitable algorithm used in the human Iris recognition? 7

(d) Explain, advantages and disadvantages of face and iris biometrics. 7

Unit-III

3. (a) What is Thinning? 2

(b) Explain conceptual diagram fo the finger pring recognition system. 7

(c) How the Fingerprint Minutiate Features are Extracted? Explain in details. 7

(d) Explain the advantages and disadvantages of ISL and fingerprint biometrics. 7

Unit-IV

4. (a) What is Cryptography? 2

(b) Explain the RSA algorithm. 7

(c) What are the Privacy concerns and issues come with biometrics system? 7

(d) Explain physical, behavioural and classifiable of soft biometrics. 7

Unit-V

5. (a) What is AADHAR? 2

(b) Explain and role of multimodel biometrics. 7

(c) Explain role of biometrics in enterprise and border security. 7

(d) What are DNA biometrics? Explain with their application.

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