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Roll No.

300812(33)

APR-MAY

B. E. (Eight Semester) Examination, 2020

(New Scheme)

(CSE Branch)

BIOMETRICS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) is compulsory and attempt any two from (b), (c) and (d) parts of each question. Part (a) is carry 02 marks each and part (b), (c) and (d) carry 07 marks each. Assume if any data is missing.

Unit-I

1. (a) Where are biometrics used?

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- (b) What needs to be considered when you enroll your biometric? Explain basic components of a Biometric System. 7
- (c) Will biometrics be a panacea in preventing terrorist activity? 7
- (d) What do I need to consider before introducing biometrics? Also explain FAR, FRR and ERR. 7

Unit-II

- 2. (a) What is image segmentation? 2
- (b) What happen to the facial features image and iris image? 7
- (c) Design a Face recognition system for person recognition. Explain merits and demerits of Finger print recognition system. 7
- (d) Comparison of face and iris Biometric Modalities. 7

Unit-III

- 3. (a) Do fingerprints and other biometric change when you get older? 2

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- (b) What is "vascular" biometrics and how is it different from fingerprint technology? 7
- (c) Will fingerprint biometrics work in all types of environments for all types of users? 7
- (d) Design a Fingerprint recognition system for person recognition. Also explain merits and demerits of Finger print recognition system. 7

Unit-IV

- 4. (a) What is soft biometrics? 2
- (b) What is Smart biometric documentation - why is it important? 7
- (c) What should biometric vendors do to accelerate the deployment of biometric technologies? 7
- (d) What are various privacy concerns related to biometrics and its implementation? Example with suitable example. 7

Unit-V

- 5. (a) What is soft biometrics? 2

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- (b) What is Smart biometric documentation - why is it important? 7
- (c) What should biometric vendors do to accelerate the deployment of biometric technologies? 7
- (d) What are various privacy concerns related to biometrics and its implementation? Example with suitable example. 7