PBC-P5032 Seat No. _____

M. C. A. (Sem. V) (CBCS) Examination

November / December - 2018

Biometrics Technologies : Paper - 5032

(New Course)

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

1 (a) Objective Type Questions : 4

   (1) _____ full form of FAR.

   (2) FRR stands for _____

   (3) Full Form of FMR.

   (4) ATV stands for _____

   (b) Answer the following : (any **one**) 2

   (1) Definition: Biometrics Technology.

   (2) What is FTE?

   (c) Attempt the following : (any **one**) 3

   (1) Why Biometrics Technology?

   (2) Explain Key terms of Biometrics Technologies.

   (d) Answer in Brief : (any **one**) 5

   (1) Explain Advantages of Biometrics Technologies.

   (2) Write a note on EER and FNMR.

2 (a) Objective Type Questions : 4

   (1) ICA stands for _____

   (2) Write the full form of SVM.

   (3) Fingerprint Technology used _____ devices for scan fingers.

   (4) Write the full form of LDA.

(b) Answer in brief : (any **one**)   **2**

    (1) History of Fingerprint Technology.

    (2) List out the components of Fingerprint Technology.

(c) Answer in detail : (any **one**)   **3**

    (1) Explain Eigenface.

    (2) Write a note on Strength of Fingerprint Technology.

(d) Answer the following : (any **one**)   **5**

    (1) Explain Kernel Methods of Facial Scan.

    (2) Explain how work Facial Scan Technologies.

3 (a) Objective Type Questions :   **4**

    (1) What is Facial Metrics?

    (2) Definition: Eigen faces in Facial Recognition.

    (3) What is Skin Texture Analysis?

    (4) What is Contact Less Hand Geometry?

(b) Answer the following : (any **one**)   **2**

    (1) Definition: Iris Scan.

    (2) What is Hand Geometry?

(c) Answer in detail : (any **one**)   **3**

    (1) Differentiate : Iris Vs Retina Technology.

    (2) Explain Advantages of Iris Technology.

(d) Answer in Brief : (any **one**)   **5**

    (1) Explain Disadvantages of Retina Technology.

    (2) Write a note on privacy issues of Hand Geometry Technology.

4 (a) Objective Type Questions : 4

      (1) Voice Recognize System is speaker dependant. [true or false]

      (2) Voice Recognize and Speech Recognize both technologies are same. [true or false]

      (3) Key stroke and signature scan both are not same. [true or false]

      (4) Palm print recognition bring out the details in the pattern of raised areas is called _____.

   (b) Answer in brief : (any **one**) 2

      (1) Definition : Voce Recognize Technology.

      (2) What is Gait Recognize Technology?

   (c) Answer in detail : (any **one**) 3

      (1) Explain Performance issues of Voice Recognize Technology.

      (2) Explain Key Stroke Technology.

   (d) Answer the following : (any **one**) 5

      (1) Explain Advantages and disadvanges of Voice Recognize Technology.

      (2) How working Signature scan Technology?

5 (a) Objective Type Questions : 4

      (1) _____ cryptographic modules are devices intended for applications that need to protect stored cryptographic keys for unauthorized access in smart card.

      (2) _____ read the data stored in card for access control, authentication, online banking, digital signatures, and other applications.

(3) Fusion is used in iris and fingerprint both technology. [true or false]

(4) Internet connection must required for smart card Technology. [true or false]

(b) Answer in brief : (any **one**)   **2**

(1) Definition: Taxonomy.

(2) What is Smart-Card Chips?

(c) Answer in detail : (any **one**)   **3**

(1) Explain Characteristics of Smart Card.

(2) Write a note on Advantages of Smart Card.

(d) Answer the following : (any **one**)   **5**

(1) Write a note on Smart Card Security.

(2) Write the steps of Smart Card Production

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