

**BIO-METRICS**

(Information Technology)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Distinguish between positive and negative identification.
  - (b) Mention any two serial attacks on biometrics.
  - (c) State the civil and commercial applications of finger print.
  - (d) What are the limitations of retina scan?
  - (e) Mention the challenges with respect to voice scan.
  - (f) List the limitations of signature scan.
  - (g) List the strengths and weaknesses of IRIS scan.
  - (h) Give the disadvantages of parallel port interface Vs serial port.
  - (i) Mention how biometric system is used in medicine.
  - (j) What is the cost associated to deploy a biometric?

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Compare and discuss the benefits of biometric approach versus traditional authentication methods.
- OR**
- 3 What is false match rate (FMR)? Discuss when false matches are accepted in biometric approach.

**UNIT – II**

- 4 Why finger-scan biometric approach is not 100% accurate? Discuss.
- OR**
- 5 Elaborate the strengths and weakness of the facial scan.

**UNIT – III**

- 6 How the environments effect the voice scan recognition approach? Explain.
- OR**
- 7 Explain how the signature scan works with example.

**UNIT – IV**

- 8 What are the limitations of uni-variate biometric systems with respect to serial port interface?
- OR**
- 9 Explain about AFIS (automatic finger print identification system)

**UNIT – V**

- 10 How biometric approach plays prominent role in today's security issues? Elaborate.
- OR**
- 11 Explain the role of biometrics in E-commerce applications.

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