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Code No: IT1523

GEC-R14

IV B. Tech I Semester Regular Examinations, November 2017

BIO-METRICS

(Information Technology)

Time: 3 Hours

Max. Marks: 60

Note: All Questions from **PART-A** are to be answered at one place.
Answer any **FOUR** questions from **PART-B**. All Questions carry equal Marks.

PART-A

6 × 2 = 12M

1. What are different physiological Biometrics? Give examples.
2. Define performance deterioration rate.
3. What is Eigenface? where it is used?
4. a) What is IRIS scan?
b) Mention any two applications of IRIS scan .
5. List out distinctive features that will be identified in keystroke scan.
6. What is delta point of a fingerprint?

PART-B

4 × 12 = 48M

1. a) Compare and contrast Biometric verification with Biometric Identification with neat diagram. (8M)
b) What are derived metrics of Biometrics Accuracy? Explain. (4M)
2. a) What is biometric middleware? What is main purpose of biometric middle ware? (6M)
b) Differentiate between minutiae and pattern matching. (6M)
3. Discuss in detail about competing Facial scan technologies and specify their relevance to some of the exemplary real time security applications. (12M)
4. a) How image acquisition is done in IRIS scan technology? (8M)
b) Explain image mapping procedure in IRIS scan technology. (4M)
5. Explain in detail about the working procedures of hand scan technology. (12M)
6. Write in detail about the process for securing and trusting Biometric transaction. (12M)
