

Code No: 07A81203

R07**Set No. 2**

IV B.Tech II Semester Examinations, April/May 2012

BIOMETRICS

Information Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Do Biometric Features remains constant with time? Explain with examples. [16]
2. Explain in detail about the image acquisition in Iris scan technology. [16]
3. Describe the various features of keystroke biometric with example. [16]
4. Explain the different characteristics of iris biometrics for network security. [16]
5. (a) Explain the different horizontal classification of biometric applications.
(b) Explain the elements to be consider in implementing the biometrics. [8+8]
6. Write a note on:
 - (a) Pattern type
 - (b) Ridge count
 - (c) Distance between ridges
 - (d) Core [4+4+4+4]
7. Write in detail about the affect of lighting, eye glasses, facial hair, expression on facial scan technology with examples. [16]
8. Explain different methods of extracting the features from voice biometric with application. [16]

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R07**Set No. 4**

IV B.Tech II Semester Examinations, April/May 2012

BIOMETRICS

Information Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the various features in fingerprints with examples. [16]
2. What are the different iris representation schemes Explain in detail about Daugman's approach with a neat diagram? [16]
3. Discuss the designing privacy sympathetic Biometrics systems. [16]
4. Explain the different attacks on voice biometric. [16]
5. Explain the process involved in the Biometric system in identifying an object. [16]
6. Explain in detail about the acquisition environment effect on matching accuracy in facial scan technology. [16]
7. Explain the advantages and disadvantages matching the biometric template in the following locations.
 - (a) Local host
 - (b) Authentication server
 - (c) Match on card [16]
8. Write a note on:
 - (a) Ultra sound technology
 - (b) Optical technology. [8+8]

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R07**Set No. 1**

IV B.Tech II Semester Examinations, April/May 2012

BIOMETRICS

Information Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss on general description of voice Biometrics. [16]
2. What are the different functions and sub functions involved in Biometrics? Explain. [16]
3. Discuss choice of a Biometrics for network access. [16]
4. What effects will facial expressions, hair style, glasses, hats, makeup etc have on face recognition systems? Explain. [16]
5. Explain different biometric standard for fingerprints. [16]
6. Compare the different characteristics of the following biometrics
(a) Face
(b) Voice
(c) Iris [16]
7. Write short note on :
(a) Effect of contact lenses on iris scan
(b) Iris scan recognition. [8+8]
8. Some fingerprint systems use 10 prints, other finger print systems use two, some fingerprint systems use rolled finger prints and other finger print systems use flat finger prints why? Explain about each in detail? [16]

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R07**Set No. 3**

IV B.Tech II Semester Examinations, April/May 2012

BIOMETRICS

Information Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the various application of Biometrics. [16]
2. Explain the various steps involved in capturing voice. [16]
3. Discuss on securing and trusting a Biometrics transaction. [16]
4. How image is processed in finger scan technology? Explain in detail? [16]
5. What is the difference between Iris and recognition? Explain in detail about the two processes with a neat diagram? [16]
6. "Potential for privacy abuse due to Non cooperative Enrollment and Identify action" Explain in case of facial scan. [16]
7. Write a short note on:
 - (a) Are Biometrics more secure than pass words? Explain.
 - (b) Threshold and its need. [8+8]
8. Explain two pattern-based algorithms for extracting the features from fingerprints. [16]
