

Code :R7421204

1

IV B.Tech II Semester(R07) Regular Examinations, April 2011

BIOMETRICS

(Information Technology)

Time: 3 hours

Max Marks: 80

**Answer any FIVE questions
All questions carry equal marks**

1. (a) Compare the traditional authentication methods with the biometric authentication methods.
(b) What is false non match rate? Explain its significance in biometrics.
2. (a) Explain the working of finger scan technology.
(b) List out the weakness of finger scan technology.
3. What are the components of facial scan technology? Explain the working of facial scan technology in detail.
4. (a) How does iris scan work? Explain.
(b) List out the weakness of iris scan technology.
5. (a) What are the components of voice scan technology? Explain the working of each of the components.
(b) List out the strengths of voice scan technology.
6. What is AFIS? How does it differ from hand scan? Explain.
7. What are biometric standards? Explain the application programming interfaces.
8. Explain about various statistical measures that are used in biometrics.

Code :R7421204

2

IV B.Tech II Semester(R07) Regular Examinations, April 2011

BIOMETRICS

(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. How does biometric matching works? Explain.
2. (a) Explain the operation of the finger scan technology.
(b) List out strengths of finger scan technology.
3. (a) Explain the working of facial scan technology.
(b) List out weakness of facial scan technology.
4. (a) Explain the functioning of iris scan technology.
(b) List out strength of iris scan technology.
5. What is voice scan technology? Explain how it works in detail with a neat sketch.
6. What is hand scan? Describe the components and working of hand scan.
7. What are biometric standards? Explain their application programming interfaces.
8. How is biometrics used for networks security? Explain.

Code :R7421204

3

IV B.Tech II Semester(R07) Regular Examinations, April 2011
BIOMETRICS

(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) How is verification and identification differed in biometrics? Explain.
(b) What is failure to enroll rate? Explain its importance in biometrics.
2. What are different components of finger scan technology? How does the finger scan technology works? Explain.
3. (a) Explain how facial scan technology works?
(b) Describe about other competing facial scan technologies that are available.
4. (a) Explain how iris scan technology works?
(b) List out the weakness of facial scan technology.
5. What are the components of voice scan technology? Explain the working of each of the components.
6. Compare and contrast hand scan and retina scan technologies.
7. Write short notes on:
 - (a) BAPI
 - (b) Bio Privacy
 - (c) CDSA/HRS
 - (d) Information security for financial services.
8. How is biometrics used for networks security? Explain.

Code :R7421204

4

IV B.Tech II Semester(R07) Regular Examinations, April 2011

BIOMETRICS

(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) What is false match rate? Explain its significance in biometrics.
(b) What is importance of derived metrics in biometrics? Explain.
2. (a) How does finger scan technology? Explain.
(b) Describe about other competing finger scan technologies available.
3. (a) Explain the functioning of facial scan technology.
(b) List out strengths of facial scan technology.
4. What are the components of iris scan technology? Explain the working of iris scan technology.
5. (a) What are the components of voice scan technology? Explain the working of the voice scan technology.
(b) List out the strengths of voice scan technology.
6. How is retina scan different from iris scan? Explain.
7. Write short notes on:
 - (a) IBG'S biometric solution.
 - (b) Bio API.
 - (c) Bio privacy.
 - (d) CDSA/HRS.
8. Explain about various statistical measures that are used in biometrics.
