Code No. K1223 **R07** **Set No.1**

IV B.Tech II Semester Regular/Supplementary Examinations, April, 2012

BIOMETRICS

(Information Technology)

Time: 3 hours **Max. Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

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1. a) What is false match rate? Explain its significance in biometrics. [8]
   b) What is the importance of derived metrics in biometrics? Explain [8]

2. a) Explain the working of finger scan technology [10]
   b) List out the weaknesses of finger scan technology [6]

3. a) Explain how facial scan technology works? [10]
   b) Describe about other competing facial scan technologies that are available. [6]

4. What are the components of Iris Scan technology? Explain the working of Iris scan technology? [16]

5. What are the components of voice scan technology? Explain the working of each of the components. [16]

6. What is hand scan? Describe the components and working of hand scan? [16]

7. What are biometric standards? Explain their application programming interfaces. [16]

8. How is biometrics used for network security? Explain. [16]

Code No. K1223 **R07** **Set No.2**

IV B.Tech II Semester Regular/Supplementary Examinations, April, 2012

BIOMETRICS

(Information Technology)

Time: 3 hours **Max. Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

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1. How does biometric matching work? Explain. [16]

2. a) How does finger scan technology? Explainb) Describe about other competing finger scan technologies available. [10] [6]

3. What are the components of Facial Scan Technology? Explain the working of Facial Scan Technology in detail. [16]

4. a) How does iris scan work? Explain. [10]
   b) List out the weakness of iris scan technology. [6]

5. a) What are the components of Voice scan technology? Explain the working of the voice scan technology. [10]
   b) List out the strengths of voice scan technology [6]

6. Compare and contrast hand scan and retina scan technologies. [10]

7. Writ short notes on
   a) IBG'S biometric solution. [4]
   b) Bio API [4]
   c) Bio Privacy [4]
   d) CDSA/HRS [4]

8. Explain about various statistical measures that are used in biometrics. [16]

Code No. K1223 **R07** **Set No.3**

IV B.Tech II Semester Regular/Supplementary Examinations, April, 2012

BIOMETRICS

(Information Technology)

Time: 3 hours **Max. Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

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1. a) How is verification and identification differed in biometrics? Explain [8]
   b) What is failure to enroll rate? Explain its importance in biometrics [8]

2. What are the different components of finger scan technology? How does the finger scan technology work? Explain. [16]

3. a) Explain the working of facial scan technology. [10]
   b) List out the weakness of facial scan technology [6]

4. a) Explain the functioning of Iris Scan Technology. [10]
   b) List out the strengths of iris scan technology [6]

5. a) What are the components of voice scan technology? Explain the working of each of the components. [10]
   b) List out the strengths of voice scan technology [6]

6. How is Retina scan different from Iris scan? Explain. [16]

7. Write short notes on
   a) BAPI [4]
   b) Bio Privacy [4]
   c) CDSA/HRS [4]
   d) Information security for financial services. [4]

8. How can we trust and secure a biometric transaction? Explain. [16]

Code No. K1223 **R07** **Set No.4**

IV B.Tech II Semester Regular/Supplementary Examinations, April, 2012

BIOMETRICS

(Information Technology)

Time: 3 hours **Max. Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

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1. a) Compare the traditional authentication methods with the biometric authentication methods. [10]
   b) What is False Non Match Rate? Explain its significance in biometrics. [6]

2. a) Explain the operation of the finger scan technology [10]
   b) List out the strengths of finger scan technology [6]

3. a) Explain how facial scan technology works? [10]
   b) Describe about other competing facial scan technologies that are available. [6]

4. What are the components of Iris Scan technology? Explain the working of Iris scan technology? [16]

5. What is Voice Scan Technology? Explain how it works in detail with a neat sketch. [16]

6. What is Automated Finger Print Identification System (AFIS)? How does it differ from hand scan? Explain [16]

7. What are biometric standards? Explain the application programming interfaces. [16]

8. Write short notes on
   a) Failure to Enroll (FTE) [8]
   b) Choice of biometric network access [8]
   c) False Rejection Rate (FRR) [8]
   d) Match on Card (MOC) [8]