

Code: IT8T1

**IV B.Tech - II Semester – Regular/Supplementary  
Examinations - May 2022**

**BIOMETRICS  
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

**PART – A**

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1.

- a) Write two benefits of a biometric fraud detection system.
- b) Define False Non-Match Rate (FMR).
- c) List out the strengths of facial scan technology.
- d) List out competing facial scan technologies.
- e) Explain how AFIS works.
- f) How is DNA Scan performed?
- g) Briefly explain Data processing in Signature Scan.
- h) What is biometric middleware?
- i) List any two Biometric Applications.
- j) List a few Recommended Biometrics for network security.
- k) List out the Biometric spoofing technologies.

## PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Describe Serial layered and parallel layered Biometrics. 8 M
- b) Discuss the strengths and weakness of Finger Scan Technologies. 8 M
3. a) Explain the working of facial scan technology. 8 M
- b) Explain the competing Iris scan technologies. 8 M
4. a) Describe the working of Voice scan technology. 8 M
- b) Discuss the strengths and weakness of Retina Scan technology. 8 M
5. a) Discuss the best practices for Data protection in IBG privacy sympathetic biometric systems. 8 M
- b) Explain the Biometric Middleware with a neat diagram. 8 M
6. a) What are the characteristics of a facial scan bio-metric for network security? Explain. 8 M
- b) Explain in detail about the bio-metric spoofing. 8 M