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B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Electronics & Telecommunication Engg. Branch)

## **BIOMETRIC TECHNIQUES**

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) of each unit is compulsory carry 2 marks. Attempt any two parts from (b), (c) and (d) carry 7 marks.

## Unit-I

- 1. (a) What do you mean by Biometric System? 2
  - (b) What are the different types of biometric systems? 7

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(c)	What are the various performance measures of			(d)	Explain SIFT Algorithm?	7
	Biometrics?	7			Unit-IV	
(b)	What are the benefits of Biometrics. Write down the difference between Biometric Identification and		4.	(a)	Define Cryptography.	2
	Verification?	7		(b)	Explain Symmetric Key Encryption and Asymmetric	
	Unit-II				Key Encryption?	7
<b>2.</b> (a)	What do you mean by Image Segmentation?	2		(c)	Explain RSA algorithm?	7
(b)	Explain Contractive Transformation method for face recognition.	7		` /	What are the various privacy concern and issues related to biometrics.	7
(c)	What are the various challenges and advantages of				Unit-V	
	Face Biometrics.	7	5.	(a)	Define Multi-Model Biometrics.	2
- (d)	) With the help of the block diagram explain design of			(b)	Explain the role of biometrics in enterprise and border	
	iris biometrics.  Unit-III	7			security?  What is DNA? Explain how DNA recognition	7
<b>3.</b> (a)	) What is Key Point Localization?	2			works.	7
(b	Explain the various minutiae extraction techniques?	7		(d)	Explain Biometric Standards in detail?	7
(c)	) What is Sign Language. Explain about Indian Sign Language?	7				

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