Roll No.:

328845(28)

B. E. (Eighth Semester) Examination, April-May 2021

(New Scheme)

(Electronics & Telecommunication Engg. Branch)

BIOMETRIC TECHNIQUES

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

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

Unit-I used may obtain V? (a)

- 1. (a) Define biometric traits or biometric modalities.
 - (b) How Biometric Identification is different from Biometric Verification? Explain with suitable example. 7

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	(c)	Draw and explain various stages involved in ISL	
		recognition system.	,
	(d)	Discuss SIFT algorithm. Why is SIFT algorithm most	
		widely used for feature extraction?	,
		Unit-IV	
4.	(a)	What do you mean by attack in cryptography?	4
	(b)	What is Soft Biometrics? How does it help in the	
		biometrics with hard biometrics modalities?	
	(c)	Compare various Biometric Techniques on basis of privacy issues associated with each one of them.	,
	(d)	What are the various steps involved in RSA algorithm? Explain. Also compare it with DES algorithm.	,
		= Unit-V	
5.	(a)	What is Biometrics API?	

	System with proper block diagram.	7
	K vald-fixed medical Unit-II reteared stone 11.3	
2.	(a) What do you mean by learning or training of a neural network?	2
	(b) Draw the flow diagram of Iris Recognition System and explain it.	7
	(c) What are the strengths and weaknesses of facial biometrics? How do we solve the challenges in face recognition systems?	7
	(d) Explain the IFS method of face recognition system.	7
3.	(a) What do you mean by False minutiae?	2
	(b) Explain the working of Finger print recognition	
	system with proper block diagram.	7

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(c) Write various applications and benefits of biometric. 7

(d) Explain the working of basic architecture of Biometric

(b) Explain DNA biometrics. Why DNA biometrics is

mostly used in solving the criminal cases?

(c) What are the different characteristics, advantages	
and challenges of multimodal biometrics?	7
(d) Write short note on Biometric standards.	7
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(a) What or Bronnesses API	