

Register Number											
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SRM Institute of Science and Technology
College of Engineering and Technology
School of Computing

SET - C
OFFLINE

DEPARTMENT OF COMPUTING TECHNOLOGIES
SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu

Academic Year: 2032-2024 EVEN

Test: CLAT-3

Date: 30. 04.2024

Course Code & Title: 18CSE357T-Biometrics (Elective)

Duration: 100 minutes

Year & Sem: 3 Year/ 6 Sem

Max. Marks: 50

Part – B (5 × 4 = 20 Marks)

Answer any FIVE from the following

11	What is meant by sensor fusion? State its reasons.	4	2	4	2	1.6.1
12	Explain about hybrid biometric cryptosystem.	4	2	4	2	1.6.1
13	State the three properties of template.	4	2	4	2	1.6.1
14	Distinguish between Impersonation and Obfuscation	4	3	5	3	1.6.1
15	What are the types of sensor fusion algorithms?	4	3	5	3	1.6.1
16	List the applications of biometrics.	4	2	5	3	1.6.1

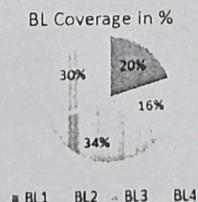
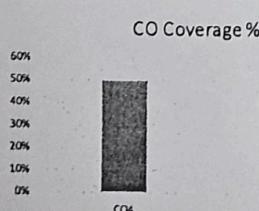
Part – C (2 × 10 = 20 Marks)

Answer ALL Question choosing any ONE from each division

17	Describe a (i) Impersonation, (ii) Obfuscation and (iii) Spoofing (or)	10	4	4	3	1.6.1
17	b What are the five ways to breach the security of a biometric system? Explain each in detail.	10	4	4	3	1.6.1
18	a Explain the pros and cons of implementing Biometric Application in Airport Screening Process (or)	10	3	5	3	1.6.1
18	b Clarify the role of Biometrics in Stock Market. Give a detailed elucidation of effects of Biometric system in the stock market.	10	3	5	3	1.6.1

*Performance Indicators are available separately for Computer Science and Engineering in AICTE examination reforms policy.

Course Outcome (CO) and Bloom's level (BL) Coverage in Questions



Approved by the Audit Professor/Course Coordinator



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Course Articulation Matrix: (to be placed)

Course Outcomes	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	P O 13	P O 14	P O 15
CO1	H	H	H	H	-	-	H	-	-	-	-	-	-	-	-
CO2	H	H	H	H	-	-	H	-	-	-	-	-	-	-	-
CO3	H	M	M	M	-	-	M	-	-	-	-	-	-	-	-
CO4	H	M	M	M	-	H	-	H	-	-	-	-	-	-	-
CO5	H	H	L	-	-	-	-	-	-	-	-	-	-	-	-

Part – A (10 × 1 = 10 Marks)

Instructions: Answer all

Q. No	Question	Marks	BL	CO	PO	PI Code
1	The primary purpose of using biometrics is to provide ----- non-repudiable authentication. a. Repudiable authentication b. Non-repudiable authentication c. Identification d. Recursive Process	1	1	4	1	1.6.1*
2	Which is not comes under Physiological Biometric traits _____ a. Face recognition b. Finger Print c. Iris d. Signature	1	1	4	1	1.6.1
3	Hidden biometrics are _____ a. Subjective b. Appearance c. Intrinsic d. Degradation Process.	1	1	4	4	1.6.1
4	Among the given options, what can be correctly referred to as a proprietary finger scanning method: a. Extraction b. Recognition c. Auto-correction d. Bifurcation	1	1	4	2	1.6.1
5	Intrusion affects the basic _____ of a biometric system. a. Integrity b. Segmentations c. Edge d. Model	1	1	4	1	1.6.1
6	_____ is the main concern in immigration and naturalization	1	1	5	2	1.6.1

	service Unique Identification Authority a. Identification b. Authentication c. Attack d. Security					
7	_____ is used for more effective Password Management in banking a. Internet Banking b. Mobile Banking c. Single Sign on d. Branch Banking	1	1	5	2	1.6.1
8	_____ Biometric App used in Airport to compare your passport to a photo capture of your face to verify you a. Automated Border Access Technology – eTech b. Automated Airport Control technology – eCtrl c. Automated User Control technology – ePass d. Automated Border Control technology - eGates	1	1	5	1	1.6.1
9	_____ is the main concern in immigration and naturalization service Unique Identification Authority a. Identification b. Authentication c. Attack d. Security	1	1	5	1	1.6.1
10	_____ traits are also considered classic or traditional, such as faces, fingerprints or signatures a. Soft Biometric b. Hidden Biometric c. Hard Biometric d. Functional Biometric	1	1	5	2	1.6.1

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Part – B ($5 \times 4 = 20$ Marks)
Answer any FIVE from the following

11	Define collusion.	4	1	4	2	1.6.1
12	What is hill climbing attack?	4	1	4	2	1.6.1
13	Explain key binding cryptosystem.	4	2	4	2	1.6.1
14	List the types of Automation	4	2	5	3	1.6.1
15	Describe programmable logic controller.	4	3	5	3	1.6.1
16	List AV fusion methods.	4	2	5	3	1.6.1

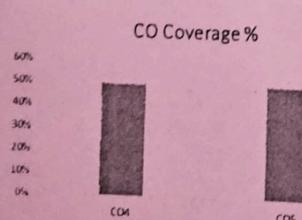
Part – C ($2 \times 10 = 20$ Marks)

Answer ALL Question choosing any ONE from each division

17	How do you achieve Identity Authentication based on a Audio Visual Biometric? Explain	10	3	4	3	1.6.1
	(or)					
17	Depict the Gesture Interpretation in Biometric system. b Describe its types? Explain the algorithms used for Gesture interpretation.	10	4	4	3	1.6.1
18	Summarize the challenges for designing a Biometric a system for Military Application? Explain in detail	10	4	5	3	1.6.1
	(or)					
18	Discuss various Fusion Strategies and their applications b with suitable architectures	10	3	5	3	1.6.1

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