Mansoura University

Faculty of Computer and Information Total Grade: Pass/Fail

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Academic Year 2019/2020 Course Name: Biometrics- MED 147 June 2020 Open book exam

Choose the best answers and write them in your answer sheet model (1).

1. The automated biometric sample in o	_						from	a
A) Verification.	ruer to generate a t		ncodi			•		
C) Feature Extraction	ın	,		0	entification.			
2. The process use			-			refers		
to		iai viauui	9 11411		ien signature i	CICIS		
A) Signature Dynami		R) K	evstr	oke V	erification.			
C) Keystroke Dynam		,	•		erification.			
3. A biometric mo			_			ognitic	m ref	ers
to	danty that uses the	marriada	ı s ty	րուց թ	attern for rec	ogiiitio	,11 1 (1)	CIS
A) Signature Dynami Signature Verification		erificatio	n. C)) Keys	troke Dynami	cs. D)		
4. A type or o		c. such	as	face.	fingerprint,	and	iris	is
called		,			g- ,	00		_,_
A) Nodal Points.		B) M	[odali	itv.				
C) Model.		,		•	(C) are true.			
5. Synonym for ve	erification is			,	(-)			
A) One-to-one.				(C) One-to-man	ıV.	1	D)
Extraction.	,				,	J		,
	has	false acco	entan	ce rate	e than fingern	rint.		
A) more.	B) same.	_	1		lower.			
D) A or B.	,			- ,				
·	llowing biometrics	is conside	red tl	he leas	t acceptable?			
A) Face.	B) Fingerprin				C) Retina.		-	D)
Signature.	/ 8· F				,			,
0	one source of inform	nation for	· bion	netric	recognition re	efers		
to	•				- · · · · 9			
A) Characteristics.	B) Verification	n.		(C) Multimodal	l biom	etrics	.
D) None of these.					,			•
	the percentage of in	valid subi	ects t	that ar	e falsely accei	oted?		
A) Type I error.	B) Type II ei	•			C) Type III e			
D) EER.	- / - J P				-			
,	r equal error rate?							
A) Lower the equal	-	B) Highe	r fals	se posi	tive make low	er		
the accuracy.	, , , , , , , , , , , , , , , , , , ,	equal eri		-	27 0 2220220 20 11	-		
C) Lower false negative	tive, higher equal	D) None						
error rate.	m, c, mgcr equal	2)1(0110	01 111					
11.	is a fixed value use	ed to mak	e deci	ision to	o accept or rei	iect the	e	
biometric user.				-51011	o december of to	,000 011	-	
	B) Matching scor	re.		C) R	eject rate.	D) M	[atchi	nσ
threshold.	_,g see.	.		~, 	-,,	-, 11		8
	ic has lower distinct	tiveness?						

A) Face.	B) Hand geometry.	C) Iris.	D)
Fingerprint.			
13. Which biometric has	s higher performance?		
A) Face.	B) Hand geometry.	C) Iris.	D)
Signature.			
	confirm that a user is n	ot enrolled in the biometric sy	stem.
A) Positive Identification.	B) Enrollment.	C) Negative Identification	
Extraction.	,	-, g	,
15. Which biometric has	s lower circumvention?		
A) Face.	B) Signature.	C) Iris.	D)
Voice.			
16. Synonym for identifi	ication is	•	
A) One-to-one.	B) Comparison.	C) One-to-many.	
D) Extraction.	, •	•	
,	o use a biometric syster	n. There are 38 genuine indivi	duals
		ster rejected and 10 imposter	
What is the value of FAR?	-	· · · · · · · · · · · · · · · · · · ·	
A) 0.19	B) 0.17	C) 0.1	
D) None of these values.		2, 3.2	
	o use a biometric syster	n. There are 38 genuine indivi	duals
	-	ster rejected and 10 imposter	
What is the value of FRR?		2002 2 0J00000 0120 20 2112p08002	acceptom.
A) 0.19	B) 0.17	C) 0.08	
D) None of these values.	D) 0.1 ?	c) 	
-	a hiometric algorithm	that indicates the correlation	hetween a
biometric sample and a ref		that indicates the correlation	setween a
A) Comparison.	B) Modality.	C) Difference Scor	P
D) Similarity Score.	b) Brodanty.	C) Difference Scor	.
20. Biometric authentica	ation		
A) is inexpensive.		_· s used only for security applic	otions
C) can use a person's face	,	only uses physical traits as a	ations.
trait.	- ′	surement.	
ti ait.	IIICa	isui ement.	
21. A security engineer	has recently installed a	biometric system and needs to	tuno it
•	_	any valid registered users. WI	
adjustment does the securi			iai
A) Increase the False Acc	-	Reduce the False Accept Rate.	
C) Increase the False Rejo	ect Kate. D) i	Reduce the False Reject Rate.	
22. You are comparing	hiomotric systems Soci	with is the ten priority. A low	
1 0	•	rrity is the top priority. A low	
_	ant in this regard. B) FRR.	C) FDD	
A) FAR. D) FTA.	D) I'KK.	C) ERR.	
,	notaristics dons a ratinal	scan hiometric device measu	ro?

QBANK BIOMETRICS 2/4 [Type here]

A) The amount of light re	O	,			
,	size, curvature,				
and shape of the retina.		D) The pattern of blood vessels at the back			
24 The similarities heter	vaan Fanansias an	of the eye.			
24. The similarities between is		d Biometrics science			
A) Applications.	B) Goals.	C) Outcomes.			
D) Technology.	,	-,			
	failure of the tec	hnology to extract adequate distinguishing			
features.		CO. 777 7			
A) FAR.	B) FTE.	C) FRR.			
D) EER.	occurs when nu	Il hypothesis is false but is accepted.			
A) Type I error.		r. C) Type III error.			
D) EER	,	, ••			
27.Standard plot for bio	ometric evaluatio	n is C) ERV.			
A) ROC.	B) FTE.	C) ERV.			
D) REC.	1 4 6	W. T			
EXCEPT	re advantages of	Multimodal biometric systems			
A) increase accuracy.		B) enhanced security.			
C) few enrollment problem	ms.	D) many enrollment problems.			
29.Systems using through a biometric		use infrared light transmitted or reflected			
	B) voice.	C) hand geometry.			
D) veins.					
	esting in simulated	d but controlled environment that is as close			
to operational. A) Technology Evaluation		B) Scenario Evaluation.			
C) Operational Evaluation		D) All of these.			
c) operational Evaluation	•	2) III of these.			
1. Biometric reference.	<u>s:</u>				
2. Enrollment.					
3. FTE.					
4. Biometric template.					
5. FAR.					
6. FRR.					
7. Positive identification	ı .				

8.	False Accept.
9.	False Reject.
1	Which of Diametria abayactoristics are considered not normanant?
	Which of Biometric characteristics are considered not permanent? Which Biometric characteristics are most constant over time?
	In terms of the order of effectiveness, which Biometric characteristics is the LEAST
4	Which Diametric characteristics have the largest user accentance level?
	Which Biometric characteristics have the lowest user acceptance level? What are the types of eye scan in use today?
	Which Biometric characteristics offer greater accuracy?
	What is the difference between biometrics and forensics?
8.	Out of the following, put in order from most accurate to least accurate
	Iris/ Retina- Facial- DNA- Voice- fingerprint
9.	Which Biometric characteristics are the least commonly used?
10.	.What is a biometric sample?
	.Which part of the iris is used to develop biometric data?
12.	.What is a biometric template?