Reg. No.	
Acg. 110.	1

B.Tech/ M.Tech (Integrated) DEGREE EXAMINATION, MAY 2024 Fifth Semester

21CSC308T - SECURITY RISK MANAGEMENT PRINCIPLES

(For the candidates admitted from the academic year 2022-2023 onwards)

Note:	
(i)	

- Part A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.

(ii)	Part - B and Part - C should be answered in answer booklet.			
Time: 3	Hours	Max.	Ma	rks: 75
	$PART - A (20 \times 1 = 20Marks)$ Answer ALL Questions			
1.	In the context of security risk, what does a "vulnerability" refer to? (A) A threat actor attempting to exploit (B) The likelihood of a security incident a systemoccurring (C) A weakness or gap in a system (D) The consequences of a security	1	1	1
2.	that incident can be exploited What is the primary purpose of a risk assessment in security risk management? (A) To identify and analyze security (B) To eliminate all security threats risks	1	1	1
	(C) To create new vulnerabilities (D) To transfer all security risks to a third party			
3.	Under HIPAA, which of the following entities is considered a "covered entity"? (A) Any individual who works in (B) Any organization that provides healthcare health insurance (C) Healthcare providers, health plans and healthcare clearinghouses (D) Pharmaceutical companies	1	1	1
4.	What is the primary goal of a threat source when leveraging a vulnerability? (A) To strengthen security controls (B) To identify new vulnerabilities (C) To exploit the vulnerability to (D) To patch the vulnerability cause harm or gain unauthorized access	1	1	1
5.	Who should issue the organizational policies? (A) Policies should originate approval (B) The auditor should authorized from the bottom and move up to the department manager for by issue the policies in the highest accordance with level of standards, and they management to should be ensure compliance	Ī	1	2
	(C) The policy should be singed and (D) The policy should be signed enforced by any level of and enforced by highest level of management management			

6.		at is the definition of a standard as co		red to a guideline?			
	(A)	Standards are discretionary process controls used with guidelines to aid the readers decision		Standards are discretionary, mandatory controls designed to support a policy following			
	(C)	Guidelines are discretionary recommended controls necessary to support standards, which are	` '	guidelines is Guidelines are intended to absence designate a policy, whereas of a standards are used in the policy			
7.	Wha	at is the difference between a policy	and a	procedure?	1	1	2
			(B)	A procedure provides defines discretionary advice specific to aid in decision requirements making. The policy to ensure compliance			
	(C)	A policy is a high-mandatory, a level document procedure signed by a person defines the of authority and mandatory steps compliance is to attain compliance	(D)	A policy is a mid-absence of a level document standard the issued to advise the procedure reader of desired describes actions in the suggested steps to use			
8.	Whi	ch of the following is not considered	a co	ntrol failure?	1	1	2
		Using a policy that lacks a detective mechanism to identify violations Testing to discover how many policy violations have occurred	(B)				
9.	Wha	at is the difference between a threat a	nd a	vulnerability?	1	1	3
	(A)	Threats are the path that can be exploited by a vulnerability Vulnerabilities are a path that can be taken by a threat, resulting in a	(B)	Threats are risks and become a vulnerability if they occur			
		loss		occurs			
10.	an in	t term simply means the right people stelligent decision, and took appropri Leadership	ate a	etion?	1	1	3
		Chain of command		Corporate responsibility Governance			
11.	incre	ch of these strategies is used in bu			1	1	3
		Bottom-up		End-state			
	(U)	Unconstrained	(D)	Top-down			
12.	Who	sets the priorities and objectives of			1	1	3
		Chief information officer (CIO) Chief executive officer (CEO)		Chief financial officer (CFO)			
	(U)	Cinci executive officer (C.F.C.)	1171	IT steering committee			

13.	Which of the following would be a concern of the auditor that should be explained in the audit report along with the findings?					1	4
		Detailed list of audit objectives		The need by the current auditor			
				to communicate with prior auditor			
	(C)	Communicating results directly to	(D)				
		the chairperson of the audit committed		management on evidence use of audit procedures			
14.	Whi	ch of these types of computer-assiste	ed au	dit tools (CAATs) is designed to	1	1	4
		ess dummy transactions during the p					
	, ,	Continuous and intermittent simulation		Embedded program audit hooks			
	(C)	Embedded audit module	(D)	Online event monitor			
15.	Wha	at is the principal issue concerning the	e use	of CAAT?	1	1	4
		The capability of the software	(B)	Possible cost, complexity, and the security of output			
	(C)	Inability of automated tools to consider the human characteristics	(D)	Documentary evidence is more Effective			
		of the environment					
16	Wh:	at is the purpose of the audit charter?			1	1	4
10.		To engage external auditors	(B)	_			
			(77)	authority, and accountability			
	(C)	To authorize the creation of the audit committee	(D)	To provide detailed planning of the audit			
17.	Fail risk	ing to prevent or detect a material err	or w	ould represent which type of	1	1	5
		Overall audit risk	(B)	Detection risk			
	(C)	Inherent risk	(D)	Control risk			
18.		ich of the following conditions is fals ple during your audit?	se in 1	regard to using the work of other	1	1	5
		Ensure independence of the	(B)	Accept the work based on job			
		provider		position			
	(C)	Use agreed-upon scope and	(D)	Provide supervision and review			-
19.	Wh	approach ich type of audit may be used for reg	ulatoi	ry licensing or external reporting?	1	1	5
		Qualified audit		Independent assessment			
		Control self-assessment	(D)	Traditional audit			
20.		at is the biggest issue with the decitractor?	ision	to transfer risk to an outsourced	1	1	<
	-		(B)	Outsourcing shifts the entire risk			
		uncontrollable increase in operating cost over time		to the contractor			
	(C)	f like a set allows	(D)	Outsourcing shields the company from intrinsic risks			

$PART - B (5 \times 8 = 40 Marks)$ Answer ALL Questions

Marks BL CO

21. a	Compare and contrast the Privacy Rule's requirements for covered entities and business associates in HIPAA.					
	(OB)					
b	(OR) Evaluate the ethical considerations related to FISMA compliance, particularly in safeguarding citizens' data and national security.	8	3	1		
22. a	. Describe the relationship between control survey maturity levels and the organization's overall security posture.	8	2	2		
	(OP)					
b	(OR) How does a thorough understanding of relevant documents aid the assessor in evaluating processes and controls?	8	2	2		
23. a.	How is an impact score typically measured or quantified in risk assessment using CIA Determination matrices?	8	2	3		
	(OD)					
b.	(OR) Explain the typical components and criteria used in a Integrity Determination Matrix.	8	2	3		
24. a.	Evaluate the implications of audit sampling methods on the effectiveness of compliance testing and substantive testing. How do different sampling techniques impact the reliability of results?	8	2	4		
b.	(OR) Explain the concept of the hierarchy of internal controls and evaluate its important in risk management.	8	2	4		
25. a.	Describe in detail about the list of the policies required to address issues faced by IT governance.	8	2	5		
b.	OR) Describe how benchmarking can help organizations identify best practices and areas for improvement in their business processes.	8	2	5		
	$PART - C (1 \times 15 = 15 Marks)$	Marks	BL	со		
	Answer ANY ONE Question					
26.	Design a comprehensive data collection strategy for a large organization, including data sources, tools, and reporting mechanisms.	15	3	2		
27.	Develop a risk-based audit approach that aligns with the organization's strategic goals and risk tolerance. How would you incorporate risk assessment into the audit planning and execution processes?	16	3	4		
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