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B.Tech/ M.Tech (Integrated) DEGREE EXAMINATION, DECEMBER 2023 Fifth Semester

21CSC308T - SECURITY RISK MANAGEMENT PRINCIPLES

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

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

(ii)	Part - B and Part - C should be answered in answ	er booklet.				
Time: 3	Hours	Max. N	√larks:	75		
	$PART - A (20 \times 1 = 20)$		Marks	BL	СО	P
1.	Answer ALL Questic Which element of risk management involves in risks?		1	1	1	1
	(A) Risk assessment (B)	Risk acceptance Risk communication				
2.	What does the CIA triad represent in information (A) Confidentiality, integrity, (B) availability (C) Control, intrusion, analysis (D)	compliance, identification, authorization Confidentiality, accountability	1	1	1	
3.	 What is the primary objective of the GLBA? (A) To regulate the use of encryption (B) in financial institutions (C) To promote competition among (D) financial institutions 	financial information	1	1	1	
4.	What does HIPAA stand for? (A) Health Insurance Privacy and (B) Accountability Act (C) Health Insurance Portability and (D) Accountability Act	Privacy Act		1	1	
5.	 What is the difference between a threat and a (A) Threats are the path that can be (B) exploited by a vulnerability (C) Vulnerabilities are a path that can (D) be taken by a threat, resulting in a loss 	Threats are risks and becomes a vulnerability if they occur		I	2	
6.	Which of the following in a business orga government for failures of internal controls? (A) President, Vice Presidents, and (B) other true corporate officers			1	2	

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	(C)	All members of management	(D)	Board of directors, CEO, CFO, CIO and department directors				
7.	Wh data	ich of the following is true concerning custodian?	ig the	roles of data owner, data user, and	1	I	2	1
	(A)	The data user implements controls as necessary The data owner specifies controls	(B) (D)	for specifying acceptable usage The data custodian specifies				
8	Wh	ich of the following statements the	hoot	security classification	1	1	2	1
0.	stra	ich of the following statements the tegy?			1	1	2	1
	(A)	Defines the techniques to be used in support of the business objective Define guidelines to follow in a recipe for success		Define the necessary procedures to accomplish the goal Defines what business an organization is in for the next three years				
9.	Whi	ich of the following management madiscretionary flexibility?	ethod	s provides the most control rather	1	1	3	1
	(A)	Distributed In-house	` /	Centralized Outsourced				
10.	Who	o is responsible for designating the	e app	propriate information classification	1	1	3	1
		Data custodian Data owner	` /	Data user Security manager				
11.	Whi	ch of the following is the best choice net?	to en	sure that internal control objectives	1	1	3	1
		Top executive issues a policy stating compliance objectives Suitable systems for tracking and	(D)	employee conduct The clients operating records are				
		reporting incidents are used		audited annually				
12.	Whi to ga	ing audit planning, several documents ch of these is used to identify the pers ain funding and ensure quality.	on re	sponsible for specific tasks in order	1	1	3	1
	(A)	Management uses the auditor's report before making their assertions		Management must make their assertions prior to reading the auditors report				
	(C)	The auditor is able to management view only evidence that has been predetermined by	(D)	The auditors opinion will be based on the desire of management				
13.		t function does the auditor provide? Second set of eyes, which are	(B)	Independent assurance that the	1	1	4	I
		external to the subject under review		claims of management are correct				
Da = -	(C)	Assistance by fixing problems found during the audit		Adapting standards to fit the needs of the client				
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	14.	What is the best data collection technique the auditor can use if the resonavailable?	irces are	1	1	4	
		(A) Surveys that create a broad sample (B) Review of existing docume (C) Auditor observation (D) Interviews	ntation				
	15.	. What is the primary purpose of the audit charter?		1	1	4	1
		(A) Specify the scope of the audit (B) Serve as a record for the upon terms of the engagement external auditors					
		(C) Specify the mutually agreed-upon (D) Assign the auditor responsible procedures that will be used during authority and accountability the audit					
-	16	b. Which of the following audit tools incorporates dummy transactions	into the	1	ī	4	1
•	10.	normal processing on a system?	mio ine	•	•	·	
		(A) Continuous and intermittent (B) Integrated test facility (ITF simulation (CIS))				
		(C) Program audit hooks (D) Snapshot					
]	17.	. Which of these types of computer-assisted audit tools (CAATs) is desi	gned to	1	1	5	1
		process dummy transactions during the processing of genuine transactions? (A) Continuous and intermittent (B) Embedded program audit he					
		(A) Continuous and intermittent (B) Embedded program audit h simulation	JOKS				
		(C) Embedded audit module (D) Online event monitor					
1	18.	. Which is the best document to help define the relationship of the inde	pendent	1	1	5	1
		auditor and provide evidence of the agreed-upon terms and conditions? (A) Audit charter (B) Annual audit plan					
		(C) Engagement letter (D) Auditor's report					
1	19.	. Which of the following types of risk are of the most interest to an IS audito	r?	1	1	5	1
		(A) Control, detection, noncompliance, (B) Inherent, noninherent, control					
		risk of strike of control (C) Sampling, control, detection (D) Unknown, quantifiable, cun	nulative				
		inherent					
2	20.	. What is the biggest issue with the decision to transfer risk to an out contractor?	sourced	1	1	5	1
		(A) There is potential for (B) Outsourcing shifts the entire	e risk to				
		uncontrollable increase in the contractor					
		operating cost over time (C) The company still retains liability (D) Outsourcing shields the co	ompany				
		for whatever happens from intrinsic risks	1)				
		$PART - B (5 \times 8 = 40 Marks)$		Marks	BL	CO	PO
		Answer ALL Questions					
21.	a.	. Evaluate the relationship between identified risks, risk owners, and risk within the ISO 27001 framework.	levels	8	5	1	1

b.	Evaluate the effectiveness of risk treatment options for mitigating identified risks.	8	5	1	1
22. a.	How do data containers contribute to data classification and access control in information security?	8	2	2	1
	(OR)				
b.	How do project sponsor characteristics impact the alignment of information security projects with an organization's strategic objectives?	8	2	2	1
23. a.	Develop a scenario where you create a Confidentiality Determination Matrix for a healthcare organization, considering different types of patient data and their confidentiality requirements.	8	6	3	1
	(OP)				
b.	How can you use threat-vulnerability pairs to create an effective data loss prevention strategy? Provide examples of specific pairs and corresponding countermeasures.	8	6	3	I
24. a.	Explain the four main stages of the PDCA cycle and their respective objectives.	8	2	4	1
b.	(OR) Explain the key components of an audit risk assessment, including inherent risk, control risk, and detection risk.	8	2	4	1
25. a.	Evaluate the challenges and barriers that organizations may encounter when attempting to progress through the maturity levels of CMM for IT Governance.	8	5	5	1
	(OD)				
b.	(OR) Summarize the Key Components and types of Service Level Agreement used in IS Audit.	8	5	5	1
	$PART - C (1 \times 15 = 15 Marks)$ Answer ANY ONE Question	Marks	BL	СО	PO
26.	Critically analyze the role of asset scoping in ensuring compliance with industry-specific regulations and standards.	15	4	2	1
27.	Develop a CAAT implementation strategy for an organization that outlines the steps, roles, and responsibilities for integrating CAATs into its audit processes.	15	6	4	1

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