Reg. No.								
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B.Tech/ M.Tech (Integrated) DEGREE EXAMINATION, MAY 2024

Sixth Semester

21CSE282T - INFORMATION SECURITY

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

- 176-1	A TA	٠

(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		swer booklet.				
Time: 3	Hours		- W	Max. N	/Iark	cs: 7	5
	$PART - A (20 \times 1)$		· ·	Marks	BL	со	PO
	Answer ALL Q	uestio	ns				
1.	of information security is the control of some object or item.	quality	of state of having ownership or	e l	3	1	2
	(A) Possession	(B)	Utility				
	(C) Accuracy	(D)	Authorization				
2.	Which encompasses the protection media, technology and content its a objective?				2	1	2
	(A) Physical security(C) Information security		Communication security Network security				
3.	MIS stands for			1.	2	1 :	2
	(A) Mail Integrity System	(B)	Mass Service System				
	(C) Manager of Information System	(D)	Mail Security System				
4.	Compromising confidential informatic category.	on cor	mes under which of the following	1	1	1	2
	(A) Bug	(B)	Threat				
	(C) Virus	(D)	Attack				
5.	What type of attack a coordinated streatfrom many locations at the same time		request is launched against a targe	t ¹	1	2	3
	(A) DDoS	(B)	Spoofing				
	(C) Password attack	(D)	Man in the middle attack				į.
6.	SLA stands for			1	2	2	2
	(A) Service Level Accuracy	(B)	Service Level Availability				
	(C) Service Level Agreement	(D)	System Level Accuracy				
7.	Which method identified weakness in controls are not present or no longer e			e 1	2	2	2
	(A) Vulnerability		Threat				
	(C) Spike	(D)	Surge				

8.	SNMP stands for			1	3	2	2
	Protocol		Single Netsim Management Protocols				
	(C) Simple Netsim Manager Process	(D)	Simple Network Management Protocol				
9.	DRP stands for		*	1	2	3	2
		(B)	Disaster Recovery Plan				
	(C) Disaster Reuse Plan	(D)	Disaster Recycle Plan				
10.	What is the formula for calculating cost	bene	efit analysis?	1	2 .	3	2
	(A) CBA = ALE (Prior) – ALE (Post) (– ACS						
	(C) $CBA = SLE \times ARO$	(D)	CBA = ACS - ALE				
11	Managed by a central authority in the org	ganiz	ration can be based on individuals	1	3	3	2
	(A) Non discretionary controls	(B)	Controlling risk				
	(C) Reduced risk	(D)	Delphi technique				
12.	When we have controlled any give vuln	erab	oility as much as we can, there is	1	1	3	2
	often risk that has not been completely r						
	7 ms = 1 ms = 1 ms	` ′	Reduced risk				
	(C) Residual risk	(D)	Lattice based risk				
13.	SYSSP stands for			1	2	4	3
	(A) Software Secure Policy ((B)	System Specific Policy				
	(C) Software Security Policy ((D)	System Security Policy	6			
14.	is the first level of security tha outside threats.	t pro	otects all internal systems from	1	2	4 .	2
•	(A) Firewall ((B)	Security perimeter				
	(C) Gateway router ((D)	Virus				
15.	compresses a set of plane designer recovery from an attack and the subseq operations.	ed to uent	ensure the effective reaction and restoration to normal modes of	1 =	4	4	3
			Incident plan				
	(C) Risk plan ((D)	Contingency planning				
16.	DMZ stands for			1	3	4	3
	· · · · · · · · · · · · · · · · · · ·		Demilitarized Zone				
	(C) Demilit Zone ((D)	Deprocess Zone				
17.	were created in response to th system via electronic system.	e ris	sing need to verify information	1	4	5	2
		(B)	Digital certificates				
	(C) Cryptography (D)	Steganography				

18.	Collection of honey pots connecting several called	honey pot systems on a subnet is	1	2	5	2
	(A) Honey nets (B)	Honey pots				
		Signatures				
	(C) Fadded cell					
10	monitors network traffic in real time	e for any intrusion.	1	3	5	2
19.	moments network traine in real time	Network based ID's				
	(11) 11050 0400 0 2 2 (D)	Firewall ID's				
	(C) Check point ID's (D)	Thewan 15 5				
	for	the message	1	4	5	2
20.	Digital signature cannot providefor	Non repudiation				
	(C) Integrity (D)	Confidentiality				
			Marks	BL	СО	PO
	$PART - B (5 \times 8 = 40 M)$					
	Answer ALL Question	ns				
			8	2	1	2
21. a.	Discuss about NSITISSC security model in	detail with suitable example.	u	2	•	- 1
	(OR)		0	2	1	2
h	Explain about SDLC waterfall methodolo	gy and its relation in respect to	8	2	1	2
U.	information security.					
	information because.					
22 04	. Construct with the help of a table any four	threats with its example	4	3	2	2
22. a.i	. Construct with the help of a table and					
55	. Interpret the following terms: Macro virus	and Boot virus.	4	3	2	2
11	. Interpret the following terms. Where where					
	(OR)					
1		etail	8	3	2	2
b	. Develop the types of security policies in de	, tuii.				
		ssessment with example	8	2	3	2
23. a	. Explain the various steps involved in risk a	issessment with example.				
	(OD)					
	(OR)	-ti fallowed in an organization	8	2	3	2
t	b. Explain with an example about the best pra	ictices followed in an organization.				
		1 to the mith the help of a	8	2	4	2
24. 8	a. Explain the goals used for design securi	ty architecture with the help of a				
	diagram.					
	(OR)		, 8	2	4	. 3
1	o. How is IT different from routine man	agement planning? What are the	8			
	components of contingency planning?					
			. 0	2	. 5	5 2
25	a. What do you mean by cryptography? Disc	cuss the authentication models used	1 8	2) 2
۷.	in cryptography.					
	m orlhoodrahan:				24	3.55
	(OR)	2 M				
	b. Write short notes on scanning and analy	vsis tools used during the security	y 8	1	2 :	5 3
		, , , , , , , , , , , , , , , , , , , ,				
	design.					

$PART - C (1 \times 15 = 15 Marks)$ Answer ANY ONE Question

- Marks BL CO PO
- 26. Design the purpose of Security Education Training and Awareness (SETA) 15 given to employees. Explain the elements.
- 27. Construct, a small family owned company made extensive use of online banking and automated clearing house (ACH) transfers. Employee logged in which both a company and user specific ID card password. Two challenges questions had to be answered for transitions over ₹ 1500. The owner notified that an ACH transfer of ₹ 10,000 was initiated by an unknown source. They contacted the bank and identified, had made six transfers from the company bank accounts totaling ₹ 55,000. How?
 - (i) What are the potential attacks justify your answer?
 - (ii) What lessons you can learn from this case study?
 - (iii) What is the impact and response in the above scenario?

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