C1002

Total Pages: 4 Roll No.

MIT (CS)-203/PGDCS-07

Advanced Cyber Security Techniques

(MSCCS-18/PGDCS-17)

2nd Semester Examination, 2022 (June)

Time: 2 Hours] Max. Marks: 80

Note: This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION-A (Long Answer Type Questions)

Note: Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

 $(2 \times 20 = 40)$

1. Answer the following :

- (a) What is a difference between network based and host-based intrusion detection and prevention system? (5)
- (b) Discuss the various placement of intrusion detection and prevention system in a network. (5)

(d) What is a signature-b		What is a signature-based detection, how it is differ	pased detection, how it is different	
		from anomaly detection?	(5)	
2.	Answer the following:			
	(a)	Explain importance of data backup.	(5)	
	(b)	Write note on Uninterruptable and backup po supplies.	wer (5)	
	(c)	What is data center security?	(5)	
	(d)	Explain different Tiers of datacentes.	(5)	
3.	Answer the following:			
	(a)	Explain Dan Kaminsky's DNS cache poisoning.	(5)	
	(b)	Explain concept of DNS and common threats to D server.	ONS (5)	
	(c)	Explain threats to email servers and countermeasur	res.	
			(5)	
	(d)	Write note on security threats to database servers.		
			(5)	
4.	Answer the following:			
	(a)	Write note on malware scanning and content filter with respect to email server.	ring (10)	
	(b)	Discuss Blacklisting and Whitelisting approach of invalidation.	nput (10)	
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(c) What do you understand by log management, how it is different from security information and event

management?

2.

4.

(5)

Answer the following:				
(a)	What is XSS vulnerability and how it coexploited by the attacker.	ould be (7)		
(b)	What is sandboxie? How can you safely run a with sandboxie?	browser (7)		
(c)	Explain principle of least privilege.	(6)		
	SECTION-B			
	(Short Answer Type Questions)			
· :	questions of Ten (10) marks each. Learners are	required		
Answer the following:				
(a)	Discuss Current threat landscape.	(5)		
(b)	Discuss possible attacks on Internet trust infras	tructure. (5)		
		cy and		
Answer the following:				
(a)	Describe the phrase "security with in SDLC"	. (5)		
(b)	Write a short note on CSRF.	(5)		
Answer the following:				
(a)	What is a spear phishing attack?	(5)		
(b)	Write a note on Operation Aurora Attack.	(5)		
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	(a) (b) (c) An: (a) (b) Wr Sur (a) (b) An: (b) (b)	(a) What is XSS vulnerability and how it convexploited by the attacker. (b) What is sandboxie? How can you safely run a with sandboxie? (c) Explain principle of least privilege. SECTION-B (Short Answer Type Questions) 2: Section 'B' contains Eight (08) short answer questions of Ten (10) marks each. Learners are to answer any Four (04) questions only. (4) Answer the following: (a) Discuss Current threat landscape. (b) Discuss possible attacks on Internet trust infrast Write a note on Network Device Resilien Survivability. Answer the following: (a) Describe the phrase "security with in SDLC". (b) Write a short note on CSRF. Answer the following: (a) What is a spear phishing attack? (b) Write a note on Operation Aurora Attack.		

	(a)	Write note on DoS/DDoS attack.	(5)	
	(b)	Explain end-point security.	(5)	
6.	ewer the following:			
	(a)	Discuss threats to ICT from manmade or natudisasters.	ıral (5)	
	(b)	Explain importance of ICT equipment disposal poli	icy.	
			(5)	
7.	Answer the following:			
	(a)	Write note on malware scanning and content filter with respect to email server.	ring (5)	
	(b)	What is XSS vulnerability and how it could	be	
		exploited by the attacker.	(5)	
8.	Answer the following:			
	(a)	Discuss Blacklisting and Whitelisting approach of in	put	
		validation.	(5)	
	(b)	Explain Microsoft Baseline Security Analyser.	(5)	

5. Answer the following :