Reg. No.								

Question Paper Code 13216		Question Paper Code	13216
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2024

Seventh Semester

Computer Science and Engineering 20CSEL705 - ETHICAL HACKING

Regulations - 2020

Du	ration: 3 Hours	lax. Mar	ks: 1	00
	PART - A (MCQ) $(20 \times 1 = 20 \text{ Marks})$		<i>K</i> –	~~
	Answer ALL Questions	Marks	Level	co
1.	Which term refers to the weaknesses in a system that can be exploited by threats?	1	K1	CO1
	(a) Threat (b) Vulnerability (c) Attack (d) Exploit			
2.	Which type of attack involves sending unsolicited messages to many recipients at once?	1	<i>K1</i>	CO1
	(a) Phishing (b) Spam (c) Spoofing (d) Sniffing	g		
3.	Which tool is commonly used for network scanning and enumeration?	1	<i>K1</i>	CO1
	(a) Wireshark (b) Nmap (c) Meta sploit (d) John the Ripper	•		
4.	Spoofing attacks often exploit vulnerabilities in protocols to impersonate	ate 1	<i>K1</i>	CO2
	legitimate entities.			
	(a) Application Layer (b) Network Layer (c) Transport Layer (d) Presentation Layer			
5.	Which protocol from the options listed below is not vulnerable to sniffing?	1	<i>K1</i>	CO2
	(a) HTTP (b) SMTP (c) POP (d) TCP			
6.	How can buffer overflow vulnerabilities affect a program?	1	K1	CO2
	(a) They can cause the program to crash (b) They can allow unauthorized code execution	n		
	(c) They can lead to data corruption (d) All of the above			
7.	Which vulnerability scanner is specifically known for detecting and reporti	ng ¹	<i>K1</i>	CO3
	vulnerabilities like SQL injection and XSS?			
_	(a) ZAP (b) Nikto (c) Nessus (d) Acunetix			~~.
8.	What is the main function of Hashcat?	1	K1	CO3
	(a) Browser Exploitation (b) Password Recovery			
	(c) Proxy Testing (d) Server Scanning	,	77.1	go.
9.	How many main types of Cross-Site Scripting (XSS) vulnerabilities exist?	1	KI	CO3
1.0	(a) 1 (b) 2 (c) 3 (d) 4	. 1	V^{1}	CO1
10.	Which of the following exploits does an attacker insert malicious code into a link the	nat ¹	ΚI	CO4
	appears to be from a trustworthy source?			
11	(a) XSS (b) Command injection (c) Path traversal attack (d) Buffer overflow	1	V1	CO4
11.	Which Web application firewalls (WAFs) help prevent which application layer attacks?	1	ΚI	CO4
12	(a) SQL injection (b) DDoS (c) XSS (d) All of the above Web application security is not required for finance applications.	1	<i>K1</i>	CO4
12.	(a) True (b) False	1	11.1	001
13.		a 1	<i>K1</i>	CO5
15.	legitimate user.	a -		
	(a) Brute Force (b) Replay (c) Phishing (d) Credential Stuffing			
14	You're shopping online, but just as you're about to pay, the website freezes. Minut	tes 1	<i>K1</i>	CO5
17.	later, you notice strange purchases made using your session. What attack could ha			
	intercepted your data as you browsed?	••		
	(a) SQL Injection (b) Man-in-the-Middle Attack (c) IP Spoofing (d) Replay Attack			
15.	Which of the following measures can mitigate the risk of brute-force attacks by limiti		<i>K1</i>	CO5
10.	login attempts?	····S		
	(a) Enforcing strong password policies (b) Using unpredictable session identifiers			
	(c) Implementing account lockout mechanisms			
	(d) Allowing users to create complex passwords with special characters			
	1 1			

16.	iden	strate how the web pages can help attackers gather that is useful for stification attacks.	Ι	K2	COS
17		Personal emails (b) Medical records (c) Employment history (d) Encrypted data	1	K1	CO6
1/.		at action can attackers perform using keystroke logging scripts in xss attacks? Modify server-side code (b) Change the website's theme	1	ΚI	000
	` /	Capture user input like passwords (d) Enable two-factor authentication			
18.	` /	ich of the following is the least secure method of authentication?	1	K1	CO6
	` /	Key card (b) Fingerprint (c) Retina pattern (d) Password			
19.		at are the common security threats?	1	KI	CO6
		File Shredding (b) File sharing and permission File corrupting (d) File integrity			
20.	` /	red XSS vulnerabilities are also known as XSS vulnerabilities.	1	<i>K1</i>	CO6
20.		Persistent (b) Non-persistent (c) Backup (d) Log			
		$PART - B (10 \times 2 = 20 Marks)$			
21	D (Answer ALL Questions	2	V 1	COL
		ine the term "Threat" in the context of cyber security.	2	K1	CO1
		at is meant by "Attack" in network security?	2	K1	CO1
23.	Diff	Perentiate between sniffing and spoofing.	2	K2	CO2
24.	List	out the different types of spoofing attacks.	2	<i>K1</i>	CO2
25.	Wha	at is SQL Injection?	2	K1	CO3
26.	Con	npare SQL injection attack and Cross Site Scripting attack.	2	K2	CO3
27.	Def	ine HTTP Protocol.	2	<i>K1</i>	CO4
28.	Def	ine Request and Response.	2	<i>K1</i>	CO4
29.	Wha	at are flaws?	2	K1	CO5
30.	Def	ine Content Security Policy (CSP).	2	<i>K1</i>	CO6
		PART - C $(6 \times 10 = 60 \text{ Marks})$ Answer ALL Questions			
31.	a)	Describe the phases involved in ethical hacking. Provide a detailed explanation of each phase, including foot printing, scanning, system hacking and session hijacking.	10	K2	CO1
		OR			
	b)	Discuss the effectiveness of various session hijacking prevention techniques. Which	10	K2	CO1
		techniques are most effective, and why?			
					~~.
32.	a)		10	K2	CO2
		OR			
	b)	Explain in detail about various types of Man-in-the-Middle attack and also discuss	10	K2	CO2
		how to detect and prevent from Man-in-the-Middle attack.			
22	(ء	Describe in detail shout Web application throats	10	K2	CO3
33.	a)	Describe in detail about Web application threats.	10	IX2	COS
	1.	OR	10	νı	CO2
	b)	Summarize about SQL Injection attack and its types.	10	K2	CO3
2.4	`	English hair Construct the town of CC.	10	νn	COA
34.	a)	Explain briefly about the types of Session Management.	10	K2	CO4
	1 \	OR	10	W2	CO.
	b)	Demonstrate in detail about Server Side functionality technologies (Java, ASP, PHP).	10	K2	CO4

35.	a)	List the types of password attacks and explain how to prevent password attacks.	10	K2	COS
		OR			
	b)	Explain in detail about Authentication Technologies.	10	K2	COS
36.	a)	Discuss in detail about DOM-based Cross-Site Scripting.	10	K2	CO
		OR			
	b)	Explain about HTTP header injection.	10	K2	CO