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Reg. No.							

B.Tech. DEGREE EXAMINATION, MAY 2024

Fifth & Sixth Semester

18CSE412J - OFFENSIVE SECURITY

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

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(i) (ii)		over	to hall invigilator at the end of 40 th n - B & Part - C should be answered	ninute	rithin first 40 minutes and OMR sheet. wer booklet.	et shou	ld be	; han	ded
Time:	3]	hours				Max.	Mar	ks: 1	00
			$PART - A (20 \times 1 =$	- 20 N	Marks)	Marks	BL	со	РО
			Answer ALL Q						
	1	Who	t are some of the windows API f			1	1	1	1
	1.	(A)	Create process, create file, get message	(B)	Func create process, Func create file	;			
		(C)	Routines, system calls, DLLs	(D)	User 32, DLL, MSVRT.DLL kernel 32.DLL	1			
	2	Ther	re long beeps during the power or	n self	test indicate	1	1	1	1
	4.		Mouse error	(B)	Program error				
			RAM module error		Keyboard error				
	2	W/h o	at port numbers do SMTP and PC	1D3 11	se.	1	1	1	1
	٥.		25 and 110	/13 u (R)	110 and 25				
		` '	111 and 25	` '	110 and 26				
	4		protocol allows devices to be	man	aged and monitored remotely.	1	1	1	1
	4.	(A)	NetBIOS enumeration	(R)	SNMP enumeration				
		(A) (C)	LDAP enumeration		NTP enumeration				
	5.		identifying the users on the ta	aroet	system	1	1	2	1
	٦.	(A)			Port scanning				
		(C)	User enumeration		Service enumeration				
	6.		is used for web application	secur	ity testing	1	1	2	1
	0.	(Λ)	Burp suite	(B)	Scout suite				
		(C)	Suite	(D)					
	7.		is the command line utility g the supported protocols.	for tr	ansferring data from or to a serve	r ¹	1	2	1
			WGET	(B)	NIKTO				
		(C)	CURL	(D)	GET				
	8.	criti		ed sp	ace to work with or when speed i	s ¹	1	2	1
			Staged payload	(B)	Customized payload				
		(C)	Restricted payload	. ,	Non staged payload				
	٠.	(0)	F-J	` /		25MA5	86-1	8CSE4	412J

9.	Portable executable injection and los stored on disk.	ading	does not require the to be	1	1	3	1
	(A) SQL	(R)	DDL				
	(C) DSL	` ′	HTML				
	(C) DOL	(D)	TITIVIL				
10.	isolate and analyze suspicio	us file	es. URLs, or email attachments to	1	1	3	1
	detect and prevent HTML smuggling						
	(A) Sand boxing	_	White boxing				
	(C) Black boxing	` '	Grey boxing				
		` '	., 5				
11.	identify weakness in a syst	ems s	security by simulating real world	1	1	3	1
	attacks.						
	(A) VBA macros	(B)	CURL				
	(C) Shellcode runners	(D)	WGEŢ				
12.	is used to inject malicious co			1	1	3	1
	(A) SQL injection		Server injection				
	(C) DLL injection	(D)	Process injection				
12	in the Court in			,			
13.	is the first virus.	(D)	C. I. a. I	1	1	4	1
	(A) Creeper(C) Root kit		Code red				
	(C) Root Kit	(D)	Stux net				
14.	Regular database updates help antivi	מופ פר	ftware maintain	1	1	4	1
	(A) Reduce false positives and	(B)	Reduced false positive and high				
	reduce detection rate	(2)	detection rate				
	(C) High false positives and high	(D)					
	detection rate	()	detection rate				
15.	in which the attackers send	decep	tive emails, messages or website	1	ì	4	1
	that trick users into revealing their lo						
	(A) Brute force attacks	(B)	Keyloggers				
	(C) Credential dumping	(D)	Phishing attacks				
1.0							
10.	is the first phase of ethical ha	•		1	1	4	1
	(A) ARP poisoning						
	(C) Foot printing	(D)	DNS poisoning				
17	is designed to prevent unauth	norize	d software	1	1	5	1
17.			Mobil locker	-	-	-	•
	(C) LOL bins		Software locker				
		(2)	Software fooker				
18.	DNS translates a domain name to		•)	1	1	5	1
	(A) Hex		Binary				
	(C) IP	(D)	URL				
19.	protects data from modificati			1	1	5	1
	(A) Confidentiality		Integrity				
	(C) Authentication	(D)	Non repudiation				

20.	is not the strongest security protocol. (A) HTTPS (B) SSL	1	1	5	ı
	(A) HTTPS (B) SSL (C) SFTP (D) SMTP				
	PART – B (5 × 4 = 20 Marks) Answer ANY FIVE Questions	Marks	BL	со	PO
21.	A company shares all the information with its testers. What type of penetration testing does the tester use to find the vulnerability? Write a short note on the type of penetration testing that the tester opted for.	4	2	1	1
22.	Compare active and passive reconnaissance. Give examples.	4	4	1	1
23.	Brief about persistence techniques.	4	1	2	l
24.	Write the steps of how autoruns are used to remove malware.	4	2	2	1
25.	Illustrate how the HTML smuggling works. Give examples.	4	2	3	1
26.	Write short notes on the basic function of the antivirus engine.	4	1	4	1
27.	What are living off the land binaries (LOL bins) in offensive security testing and given an example of how they can be utilized.	4	1	5	1
	PART – C ($5 \times 12 = 60$ Marks) Answer ALL Questions	Marks	BL	CO	PO
28. a.	Explain with examples the following Linux commands (i) ls command (ii) rm command (iii) echo command (iv) df command (v) chmod command (vi) apt-get command	12	3	1	5
	(OR)				
b.i.	How does the windows registry work and when to use the windows registry?	6	2	1	I
ii.	Discuss the services, functions and routines in windows operating system.	6	2	i	1
29. a.i.	What is the Metasploit frame work?	4	i	2	1
ii.	Write the syntax of each step involved in creating and executing payloads in Metasploit.	8	3	2	5
	(OR)				
b.	Explain in detail about persistence techniques with example commands.	12	3	2	1
30. a.i.	Write the VBA Macros code to open a program.	6	3	3	5

ii.	Write the VBA Macros code for workbook_open_close.	6	3	3	5
b.	(OR) What is social engineering? Discuss in detail the steps used by SET to clone to site in Kali Linux.	12	2	3	5
31. a.	Discuss in detail the techniques used in DLL injection attacks.	12	2	4	1
b.	(OR) How is open source intelligence used? Find the difference between passive versus active OSINT.	12	2	4	1
32. a.	Describe the process of finding the antivirus signature from the detected file.	12	2	5	1
b.	(OR) Discuss in detail the following with examples (i) encoders (ii) encrypters	6	2	5	1

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