b.	Construct the prevention mechanism and web security attacks of client authentication with a neat sketch.	12	5	4	1
32. a.	Assess the functions of security in UMTS (3G) with suitable example.	12	6	5	1
b.	(OR) Discriminate the authentication and confidentiality of wireless network security in detail.	12	6	5	1

01JF6&7-18CSE354T Page 4 of 4

Reg. No.	
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B.Tech. DEGREE EXAMINATION, JUNE 2023

Sixth & Seventh Semester

18CSE354T - NETWORK SECURITY

	(For the candidates admitted during the academic year 2018-2019 to 2021	1-2022	2)			
Note: (i) (ii)	Part - A should be answered in OMR sheet within first 40 minutes and OMR over to hall invigilator at the end of 40 th minute. Part - B & Part - C should be answered in answer booklet.	sheet	shoul	d be	han	ded
Time: 3	hours	M	Iax. M	Iark	s: 10	00
	$PART - A (20 \times 1 = 20 Marks)$ Answer ALL Questions		Marks	BL	со	PO
1.	It is used to keep subjects accountable for their actions while they	are	1	1	1	1

(D) Performance reviews (C) Account lockout 2. The one which is most useful in sorting through large log files when 1 1 1 1 searching for intrusion related events (A) Text editor (B) Vulnerability scanner

(B) Monitoring

(C) Password cracker (D) IDS

authenticated to a system. (A) Access controls

3. A true one regarding vulnerability scanners (A) They actively scan for intrusion (B) They serve as a form of enticement attempts (C) They locate known security (D) They automatically reconfigure holes a system to a more secured state

4. While using penetration testing to verity the strength of your security policy (A) Mimicking attacks previously (B) Performing the attacks without perpetrated against your system managements consent

(C) Using manual and automated (D) Reconfiguring the system to attack tools resolve any discovered vulnerabilities

5. Range of class a in public IPv4. (A) 0.0.0.0 to 223.255.255.255 (B) 0.0.0.0 to 192.0.0.0

(C) 0.0.0.0 to 127.255.255.255 (D) 0.0.0.0 to 128.0.0.0

6. Find the valid private IP addresses (A) 172.30.255.255 (B) 10.210.220.254 (C) 172.16.21.240 (D) 172.32.250.254

7. When sending packet to a destination, the source host send queries to (A) Dual stack (B) Domain name server

(C) Header information (D) Transport layer

Page 1 of 4

01JF6&7-18CSE354T

1 1 1 1

1 1 2 1

1 1 2 1

1 2 1

8.	When two computers want to commute the packet must pass through a region		•	1	1	2	1
	(A) Stack	(B)	Tunneling				
	(C) Header translation	` '	Conversion				
	(C) IIIOMOOT MAIIDIMIOII	(2)					
9.	A major way of stealing email inform			1	1	3	1
	(A) Stealing cookies		Reverse engineering				
	(C) Password phishing	(D)	Social engineering				
10.	Method for keeping sensitive infor accounts secure against unofficial acc			1	1	3	1
			_				
	(A) Email security	` .′	Email scrutiny				
	(C) Email protection	(D)	Email safeguarding				
11.	A stored cookie which contains all can be stolen away by			1	1	3	1
	(A) Attackers and malware	` '	Hackers and antivirus				
	(C) Penetration testers and malware	(D)	Penetration testers and virus				
			*				
12.	A technique used for tricking use passwords through fake pages.			1	1	3	1
	(A) Social engineering	` '	Phishing				
	(C) Coolie stealing	(D)	Banner grabbing				
13.	The following one is not a session sta	te par	rameter	1	1	4	1
	(A) Master secret	_	Cipher spec				
	(C) Peer certificate	. ,	Server write key				
	(0) 1 001 0010110000	(-)	22.12.11.110				
14.	Difference between HMAC algorithm SSLV3 but whereas in HMAC.	n and	SSLV3 is that Pad1 and Pad2 in	1	1	4	1
	(A) NANDed, XORed	(B)	Concatenated, XORed				
	(C) XORed, NANDed	` '	XORed, XOed				
		()					
15	In TLS padding can be up to a maxim	ıım o	f	1	1	4	1
15.	(A) 79 bytes		127 bytes				
		` '	•				
	(C) 255 bytes	(D)	256 bytes				
16.	An alert codes is not supported by SS			1	1	4	1
	(A) Record_overflow		No_certificate				
	(C) Internal_error	(D)	Decode_error				
	9						
17.	An UMTS does not has backward con	npatil	pility with	1	1	5	1
	(A) GSM	•	IS-136				
	(C) IS-95	(D)	GPRS				
	(5)	(2)					
10	A chip rate or W-CDMA			1	1	5	1
10.	*	(D)	2 94 Mana				
	(A) 1.2288 Mcps		3.84 Mcps				
	(C) 270.833 Mcps	(D)	100 Mcps				

	19.	Not a proper standard of wireless LAN	1	1	5	1
		(A) HIPER-LAN (B) HIPERLAN/2				
		(C) IEE 802.11b (D) Amps				
	20.	A wireless LAN standard has been named Wi-Fi for	1	-1	5	1
		(A) IEEE 802.6 (B) IEEE 802.15.4				
		(C) DSSS IEEE 802.11 b (D) IEEE 802.11G				
	-					
		$PART - B (5 \times 4 = 20 \text{ Marks})$	Marks	BL	CO	PO
		Answer ANY FIVE Questions				
	21.	Discuss packet filtering and its features.	4	2	1	1
	22.	Identity the different phases and scenario of IKE.	4	2	2	1
	23.	Extend the security services for E-mail.	4	2	3	1
			4	•	4	1
	24.	Distinguish the advantages and disadvantages of client authentication.	4	2	4	1
	25.	Express briefly about cross site scripting.	4	2	5	1
	26.	Recognize the authentication of the source in network.	4	2	3	1
				_		
	27.	Indicate the vulnerabilities in wireless LAN.	4	2	5	1
	27.	Indicate the vulnerabilities in wireless LAN.	4	2	5	1
	27.	$PART - C (5 \times 12 = 60 Marks)$		2 BL		1 PO
	27.					
7		$PART - C (5 \times 12 = 60 Marks)$		BL	со	
7		$PART - C (5 \times 12 = 60 \text{ Marks})$ Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram.	Marks	BL	со	РО
	28. a.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions	Marks	BL	со	РО
	28. a. b.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR)	Marks	BL 3	co 1	PO
	28. a. b.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example. Interpret the encoding process of ISAKMP/IKE.	Marks 12	BL 3	co 1	PO 1
	28. a. b. 29. a.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example.	Marks 12	BL 3	co 1	PO 1
	28. a. b. 29. a. b.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example. Interpret the encoding process of ISAKMP/IKE. (OR) Analyze the key exchange strategies of internet in detail.	Marks 12 12	3 3 4	co 1 1 2	1 1 1 1
	28. a. b. 29. a. b.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example. Interpret the encoding process of ISAKMP/IKE. (OR)	Marks 12 12 12	BL 3	co 1 1 2 2	PO 1 1 1 1 1 1
	28. a. b. 29. a. b.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example. Interpret the encoding process of ISAKMP/IKE. (OR) Analyze the key exchange strategies of internet in detail. Discover a public key technology with distribution list for the detection of attacks in email.	Marks 12 12 12	BL 3	co 1 1 2 2	PO 1 1 1 1 1 1
	28. a. b. 29. a. b. 30. a.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example. Interpret the encoding process of ISAKMP/IKE. (OR) Analyze the key exchange strategies of internet in detail. Discover a public key technology with distribution list for the detection of attacks in email. (OR) Dramatize public and secret key for establishing the security services with	Marks 12 12 12	BL 3	co 1 1 2 2	PO 1 1 1 1 1 1
	28. a. b. 29. a. b. 30. a.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example. Interpret the encoding process of ISAKMP/IKE. (OR) Analyze the key exchange strategies of internet in detail. Discover a public key technology with distribution list for the detection of attacks in email. (OR)	Marks 12 12 12 12	BL 3	co 1 1 2 2 3	1 1 1 1 1
	28. a. b. 29. a. b. 30. a.	PART – C (5 × 12 = 60 Marks) Answer ALL Questions Illustrate in detail about IP address spoofing with a neat diagram. (OR) Write in detail about the malicious software with example. Interpret the encoding process of ISAKMP/IKE. (OR) Analyze the key exchange strategies of internet in detail. Discover a public key technology with distribution list for the detection of attacks in email. (OR) Dramatize public and secret key for establishing the security services with	Marks 12 12 12 12	BL 3	co 1 1 2 2 3	1 1 1 1 1

(OR)

Page 2 of 4 Page 3 of 4 01JF6&7-18CSE354T