	PART – B (5 × 10 = 50 Marks) Answer ALL Questions	Marks	BL	CO	]
26. a.	State the technical details of firewall and describe the process by which filtering firewall can successfully secure the system.	10	3	1	
b.	(OR) Identify a few malicious programs that need a host program for their existence.	10	2	1	
27. a.	With neat sketch show the actual ISAKMP packets that are exchanged between initiator and a responder using the pre-shared key method in main model.	10	3	2	
	(OR)				
b.	Define AH in tunnel and transport model and state the difference between AH and ESP.	10	1	2	
28. a.	Elaborate the functions included in MIME in order to enhance the security? How they are done?	10	3	3	
	(OR)				
b.	Articulate how the source authentication is provided based on public key, secret key and distribution list exploders.	10	3	3	
29. a.	Illustrate and describe the actions involved in SSL record protocol.	10	2	4	
	(OR)				
b.	Explain in detail about SET for E-commerce transaction.	10	1	4	
80. a.	Elaborate on the various 802.11i phases of operation analyze its performance.	10	3	5	
	(OR)				

\* \* \* \* \*

overcome the XSS.

b. Discuss about the XSS vulnerabilities and explain the solutions to 10 2 5 1

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Reg. No.			
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## B.Tech. DEGREE EXAMINATION, DECEMBER 2022

Sixth/ Seventh Semester

## 18CSE354T – NETWORK SECURITY

				cademic year 2018-2019 to 2019-2020	))			
Note: (i) (ii)	70	art - A should be answered in OMR shower to hall invigilator at the end of 40 <sup>th</sup> n art - B should be answered in answer bo	ninute	<b>2</b> .	t shoul	d be	han	ded.
Time:	2½ H	iours			Max.	Ma	rks:	75
		$PART - A (25 \times 1 = Answer ALL Quality)$			Marks	BL	СО	РО
]		hich of the following is a malicious rode and modifies other computer	is so	ftware that, on execution runs in	1	1	1	1
	(A	) Spam ) Spyware	(B)	Virus Adware				
2	be	hich of the following VPN topolog tween an organizations main offic twork or the internet?		-	1	2	1	1
	(A	) Hub and spoke ) Start	(B) (D)	Full mesh Point to point				
3	un (A	firewall is installed at the point w trusted external network meet whic ) Clock point ) Firewall point	th is a (B)		1	2	1	1
2	tra tha Ida (A	is attack is made possible due to a veling user's action, thus allowing the user did (or) did not commit bentity which type of attack is this.  Replay  Passive attack: traffic analysis	ig malike le	alicious manipulation of actions ogging of wrong data to log files.  Active attack: repudiation	1	2	1	1
5	spi	stand alone malware computer pro read to other computer.  ) Virus  ) Trojan	(B)	that replicates itself in order to Worms Bots	1	1	1	1
6		there is a single path fractificate.			1	1	2	1
	(A (C	) X509 ) KDC	(B) (D)	PGP TSL				

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7.	IKE is a complex protocol based on		other protocols.	1	2	2	1
	(A) Two	(B)	Three				
	(C) Four	(D)	Five		,		
8.	is the protocol designed	to ci	reate security associations, both	1	2	2	1
	inbound and outbound.						
	(A) SA	(B)	CA				
	(C) KDC	(D)	IKE				
9.	The IPsec header includes a field k	nown	as the which identifies	1	2	2	1
	the security association in SAD [Sec	urity .	Association Database].				
	(A) State index	(B)	Security parameter index				
	(C) Sequence index	(D)	Flag				
10.	provides either authentication	n or e	ncryption (or) both for packets at	1	2	2	1
	the IP level.						
	(A) AH	(B)	ESP				
	(C) PGP	(D)	SSL				
11.	A sender 'S' sends a message 'm' to	recei	ver 'R', which is digitally signed	1	3	3	1
	by S with its private key. In this so	enario	o one (or) more of the following				
	security violations can take place.	attaa	It to manle as my with front dulant				
	(i) S can launch a birthday message	attac	k to replace m with fraudulent				
		launo	ch a birthday attack to replace m				
	with a fraudulent message		-				
		attack	to replace m with a fraudulent				
	message, Which of the following are possible	secur	ity violations?				
	(A) (i) and (ii) only		(i) only				
	(C) (ii) only		(ii) and (iii) only				
	(c) (n) only	(D)	(ii) and (iii) only				
12.	Which of the following are used	to ge	nerate a message digest by the	1	3	3	1
	network security protocols? (P) RSA (Q) SHA-1 (iii)	DES	(S) MDS				
	(A) P and R only		R and S only				
	(C) Q and R only	. ,	Q and S only				
	(c) Q and R only	(D)	Q and 5 omy				
13.	Mention the size of the message into	grity	code key	1	1	3	1
	(A) 64 bits	(B)	128 bits				
	(C) 256 bits	(D)	512 bits				
14.	Which operation is used in encryptic	on usi	ng IDEA?	1	2	3	1
	(A) Addition modulo 216	(B)	Bit wise XOR				
	(C) Addition modulo 216 and bi	t (D)	Addition modulo 216 and bit				
	wise XOR		wise AND				
15.	uniquely identifies the MI	МЕ ет	ntities uniquely with reference to	1	1	3	1
	multiple contents.		1 7				
	(A) Content description	(B)	Content ID				
	(C) Content type	(D)	Content transfer encoding				
			<del>-</del>				

16.	SSL	primarily focuses on			1	1	4	1
	• /		` '	Integrity and authenticity				
	(C)	Authenticity and privacy	(D)	Confidentiality and integrity				
17.	In th	e SSL protocol, which protocol c	onsis	ts of only 1 byte?	1	2	4	1
				Handshake protocol				
	(C)	Upper-layer protocol	(D)	Change cipher spec protocol				
18	In S	SL handshake, server hello messa	ges f	vnically contains	1	1	4	I
10.		List of ciphers for the session						
	` ,	and extensions list	` /	and random bytes				
	(C)	Selected cipher for the session	(D)	Random bytes and public key				
		and public key for server		server				
19.		layer security protocol provi	ides	end to end security services for	1	2	4	1
		ications.		-				
	(A)	Data link layer	٠,	Network				
	(C)	Transport	(D)	Application				
20.	The combination of key exchange, hash and encryption algorithms defines						4	1
	a	for each SSL session.		<i>71</i>				
		List of protocols		Cipher suites				
	(C)	List of keys	(D)	Handshake				
21.	Whi	ch layer keep tracks of the fra	mes	that have been transmitted and	1	1	5	1
		ived?						
		Physical layer	. ,	Medium access layer				
	(C)	Logic link control layer	(D)	Transport layer				
22.	Which of the stored procedure is used to test the SQL injection attack?						5	1
		XP_write						
		XP_reg	(D)	XP_cmdshell				
23	SOI	injection is an attack in which		code is inserted into strings	1	2	5	1
20.		are later passed to instance of SQ						
		Malicious	-	Redundant				
	(C)	Clean	(D)	Non-malicious				
24	TEE	E 802.11 defines service	ces tl	nat need to be provided by the	1	2	5	1
2				uivalent to that which is inherent				
	to w	rired LANs.	-					
	(A)		(B)					
	(C)	5	(D)	9				
25.	Who	en a station moves only within t	he di	rect communication range of the	1	1	5	1
		munication stations of a single B						
	` ′	No transition	` '	BSS transition				
	(C)	ESS transition	(D)	MS transition				

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