32. a.	Explain the process of investigating e-mail crimes and violation.	12	3	5	3
b.	(OR) Describe the acquisition procedure for cell phones and mobile devices.	12	3	5	3

* * * * *

Reg. No.

B.Tech. DEGREE EXAMINATION, JUNE 2023

Sixth Semester

18CSE461T – INTERNET SECURITY AND CYBER FORENSICS

	(For the candidates admitted during the academic year 2018-2019 to 2021-202	_			
Note:					
(i)	Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet over to hall invigilator at the end of 40 th minute.	et shoul	ld be	han	ded
(ii)	Part - B & Part - C should be answered in answer booklet.				
Time: 3	3 hours	Max. I	Marl	ks: 1	00
	$PART - A (20 \times 1 = 20 Marks)$	Marks	BL	СО	PO
	Answer ALL Questions				
1	The combination of key exchange, hash and encryption algorithms defines a for each SSL session.	1	1	1	1

(C) Hashed message authentication (D) Cipher suite code

2. IP security operates in which layer of the OSI model?

(A) Network
(B) Transport
(C) Application
(D) Physical

(B) List of keys

- 3. Which two types of encryption protocols can be used to secure the 1 1 1 1 2 authentication of computers using IPsec?

 (A) Kerberos V5 (B) SHA
- (C) MD5 (D) Both SHA and MD5

 4. _____ is actually an IETF version of _____.
 - (A) TLS, TSS (B) SSL, TLS (C) TLS, SSL (D) SSL, SLT
- 5. ____ uniquely identifies the MIME entities uniquely with reference to 1 1 2 2 multiple contexts.
 - (A) Content description(B) Content-ID(C) Content type(D) Content transfer encoding
- 6. The cryptography algorithms used in S/MIME are _____. 1 1 2 1 (B) RC4
- (C) RSA, DES-3(D) RC57. What is the key size allowed in PGP?

(A) List of protocols

- (A) 1024-1056 (B) 1024-4056
- (C) 1024-4096 (D) 1024-2048
- 8. ____ is a software that blocks unauthorized users from connecting to the 1 1 2 2 computer.
 - (A) Firewall (B) Quick laucm
 - (C) One login (D) Centrify

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1 1 1 2

1 1 2 2

9.	can makes or breaks investiga	tion	1	1	3 2		20.	Disk explorer and HDhost are what kinds of tools?	1	1	5	2
	(A) Crime	(B) Security						(A) Password recovery (B) Remote DBMS				
	` '	(D) Evidence						(C) Remote acquisition (D) Compression				
	(C) Digital forcissic	(b) Evidence						(c) Remote acquisition (b) compression				
10.	is known as father of compu	ter forensic.	1	1	3 2			$PART - B (5 \times 4 = 20 Marks)$	Marks	BL	CO	PO
		(B) J.Korn						Answer ANY FIVE Questions				
		(D) S.Ciardhuain						Allswei Alt I I VE Questions				
	(C) Michael Anderson	(D) S.Ciaidhuain					2.1		4	2	1	2
							21.	Draw the encapsulation security payload format and list all the fields.	7	2	1	۷
11.	Which of the tasks the investigators	will not perform when working with	l ¹	1	3 2							
	digital evidence?						22.	Define hashed message authentication code (HMAC) algorithm.	4	2	1	1
	(A) Identity digital information or	(B) Collect, preserve and document	t									
	artifacts that can be used as	evidence			80		23	What is a firewall? Write the role of firewalls.	4	2	2	2
	evidence	V.1403110V					23.	What is a morrain. White his left of morrains				
		(D) Inform the victim chart the				45	2.4	Tier the houseful of comments for models and below	4	2	3	2
		(D) Inform the victim about the	5				24.	List the benefits of computer forensics methodology.	•		,	_
	evidence	recent development	*									
							- 25.	List out any four forensics tool for evidence collection.	4	2 .	4	1
12.	FAT stands for		1	1	3 2							
	(A) File access table	(B) File allocation table					26.	Explain the multipurpose internet mail extension (MIME) format in detail.	4	2	2	2
	(C) Federal assessment team	(D) Forensic assistant tool										
	(C) I dudin accessment tourn	(D) Totalista abbitation					27	Discuss the RAID data acquisition.	4	2	3	1
12	A mathematical formula that translate	a a file into a horradorimal code value	. 1	1	4 2		21.	Discuss the NAID data acquisition.				
15.		s a me into a nexadecimal code value	5	-								
	or a hash value											
	(A) CRC	(B) DES						$PART - C (5 \times 12 = 60 Marks)$	Marks	BL	со	PO
	(C) MD5	(D) SHA-1					3 55	Answer ALL Questions				
14.	When a file is deleted in windows XP	,	1	1	4 2		28. a.	Write short notes on		3	1	1
	(A) The OS renames it	(B) OS renames it and moves it to)					(i) Transport layer security	6			
		the recycle bin					V	(ii) - ISAKMP key-determination protocol	6			
	(C) The OS removes it totally from	•						(ii) IBARIVII key determination protocol				
		(D) it evaporates						(OP)				
	system						8	(OR)	10	2		2
			1	1	4 2		b.	Explain in detail on secure socket layer protocol and its types.	12	3	1	2
15.		preventing data from being written to) 1	1	4 2							
	them.	(9)					29. a.	Describe in detail on different types of firewalls and firewall designs.	12	3	2	3
	(A) Compact disks	(B) DVD's										
	(C) Evidence disks	(D) Pen drives						(OR)				
	(-)						h	Discuss in detail on Pretty Good Privacy confidentiality and authentication.	12	3	2	2
16	In web based E-mail, messages are	displayed and saved as web pages in	, 1	2	4 2		. 0.	. Discuss in detail on Freity Good Frivacy confidentiality and addictication.				
10.	m web based E-man, messages are	displayed and saved as web pages if	.1				20		12	2	2	3
	(A) C 1 C 11	(D) III' (30. a.	. Explain in detail on data acquisition techniques.	12	2	3	3
	(A) Cache folders	(B) History										
	(C) Cookies	(D) Desktop shortcut						(OR)				
							b.	. Summarize on the following		3	3	3
17.	. Which gives the configuration inform	ation for send mail?	1	1	5 2	2		(i) Network disaster recovery systems	6			
	(A) /etc/sendmail/cf	(B) /etc/syslog.conf						(ii) Instant messaging (IM) security systems	6			
	(C) /var/log/maillog	(D) Config.sys						(ii) instant messaging (ivi) security systems				
	(c) Truiting maning	(D) Comig.sys					21 -	Empleio in detail on Classockons and amenician NITEC dialect	12	3	4	3
18	. Administrators can recover lost or de	leted emails from these files?	1	1	5 2	2	31. a.	. Explain in detail on file systems and examining NTFS disks.		5	.*	-
10	(A) History	(B) Cookies										
	•							(OR)				
	(C) Bookmarks	(D) Favorites					b.	. Discuss in detail on storing digital evidence and obtaining a digital hash.	12	3	4	3
10	goons amail database file-	9	1	1	5 2	2	12					
19	· ·	(D) Ein-1 Eng '1	•	-								
	(A) Sawmill-GroupWise	(B) Final Email										
	(C) Fookes Aid4mail	(D) R-tools R-mail										
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