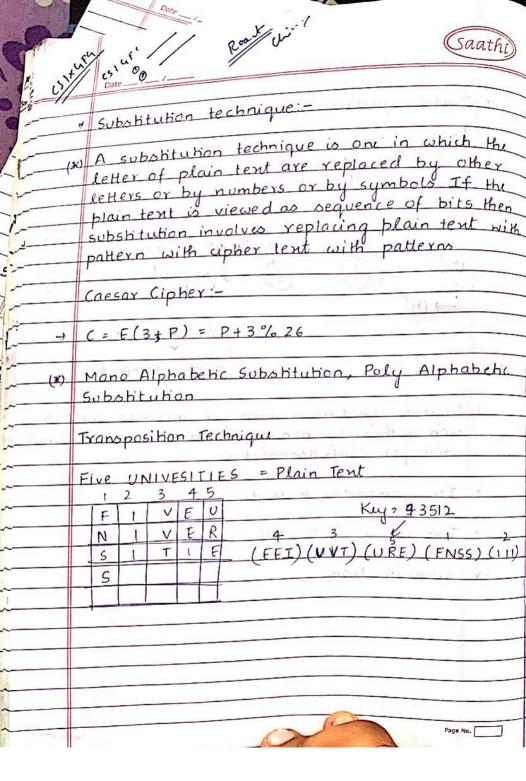
-	Always maker the nam's subject answer figure in Juli mam's Saathi
	Date _ /_ / _ answer pigure in Juli Mathi
1	Suppose in a group of N people, everyone wants to communicate secrety (n-1) other were uning symmetric & any. Rev. The communication
	to communicate secreta with the everyone wants
	symmetric & any. Rey. The communication blue
	any two people should not be deviced
	other users find out support of
	in both cases.
	1 1 10 10 10 10 10 10 10 10 10 10 10 10
	Symmetric (no.kuys) = n(n-1)
	Assymetric (no. keys) = 2 xn.
7	Symmetric cipher (DES, 3 DES, ABS)
	0
	Plaintent
	1 0 0 0 0
	- Encryption + Secret - Cipher - Decryption + Secret
	Encryption + Secret - Cipher - Decryption + Secret algo key tent Mgo key
	from ple: - DES > Plaintent
	Little by the state of the stat
20	3DES 4 Data Encryption Standard
1	Forever him Strudend
1	// Encryphion Standard.
	DES - works of 56 bits -> 256 combination
	berack DES
	DES1 works at 192 bits
	AFS + works at 128,192, 256+2" combinate
	L.
_	
	Page No.

	6
Charles Alexalters series and the series of the series and the series are series are series and the series are series and the series are series are series a	14
Decylphion - Privade key of receiver	
	1
U farring of Public key of receiver ex, Kith with	1
Plain Pat	1
	1. 1
Agymmetric	,),
	1
Date	
Court	
Sont.	T
Suppose in a	
Date_/_/_	

	Caathi)
	Date/
	1 Digital Signature:
/	Message > - E - D - Public Ruy
1	Privat key Public Rey Of sender + h value of A
Y	meaningful
	4) hash function encryption
	append Private key of A
	append (I) (E) > Msq + h Of A
	L) (H)
	Msg+h K
	Compare.
	- ATTINGTE A CHILD AND IN THE PROPERTY OF
	all law message authentical
:1	Digital signature is used for message authentical -ion, authencity, non-repudation but it is not used for confedentiality.
	-ion, authencity, non-representation
	used for confession is a same and good
7	Its asymmetric method.
- л	Importance of Digital signature:
(*)	authentication
	A C 01010 Kuy
	→ Vio e vi se
	THE RESERVE OF THE PERSON OF T
	K = u.
6.	Page No.



-	Jac
	Date_/_/_ (Saathi)
	Date
	Plain text:-
	V .
7	'Kill Corona wirus at tuelve in tomorrow pen
	Key 16 Ki El Kg. Ka Kn .
	Matrix 1812e + 7 x 5 1 Key - 4312567.
	Key G & C & 1001 (101) En
	1 2 3 14 5 6. 7 EM AM IM
	KILLCOR
	O.NAVIRU
	May S A T TH E LOS - Yangi Hold F
<u> </u>	VEQM
2	(x) plock 8/26, 41, 5/15 15 15 15 15 15 15 15 15 15 15 15 15 1
	O) (LATAR) (KOSVO) (INAER) (CIHTH) (OREO) (RULH)
	O) (LATER) (LOSVO) (TNAEK) (CIMIM) (OREO) CROCKY
4	9 siz 33518 trai radgio 2 size 2 Size trait Block size
	Sand to the taut
_//	Stream Ciphen aglo 239 - olgmaxs
-1	Plaintenter 101110810 de la la balan
	Key →001010101.
	Encrypted, 11100011 } Cipher = Plain tent XOR Key
	theighter =
	and the same of th
	111000 11 Gpher
	@ 01010101 Kuy
Nec	
VEG	epted - 10110110 -> Plain tent
	(Key Stream Generator)
-	M/-> (inter) (1) -> /M/
lainte	Gipher Dean
	Key Key tent
	Page No.

ROW column ciphering:-Msg 30 M7 M3 M4 1 M MN A Key + 1 K1 K2 K3 K4 Kn Cipher Co C2 C3 C4 x L. C. Ch MANN Key @K, K, K, K4 Kn M1 M2 M3 M4 Mn V . 8 1 A Block cipher:- Plain tent is divided into num of blocks. (*) Block size : 40 bits, 156 bits, 64 bits, 1281 STRO) (LATER) (KOSVO) (INAER) (CINTED) (OREO) ROURS 256 bits Plain tent block size = Cipher Tent Block size example: - DES algo + Blocks of plaintent. ox two niests * shall key dipher + Plain tent Key Stream Generalory C.bys. A Instru

	pate_/_/
	Date
3	Block cipher vs Stream Ciphus
.	complexity of block as complexity of stream cipher is simple cipher is more.
	the plain tent into the plain tent into
	plain tent by taking appear tent by taking plain tent block at a 1 bit of plain tent at time a time
(x)	ox more than 64
	algorithm modes which as algorith modes which are used in block are used in stream
	upher are ECB, CBC upher are *(CB) Cipher Feedback), (OF E Output Freedback)
	block ciphen works on p while stream cipher transposition techniques works on substitution like railfence technique, technique like Caesar row column transposition Cipher/Polygram Substitution Cipher
(XX)	slow speed 100 companisively high speed
	Page No.

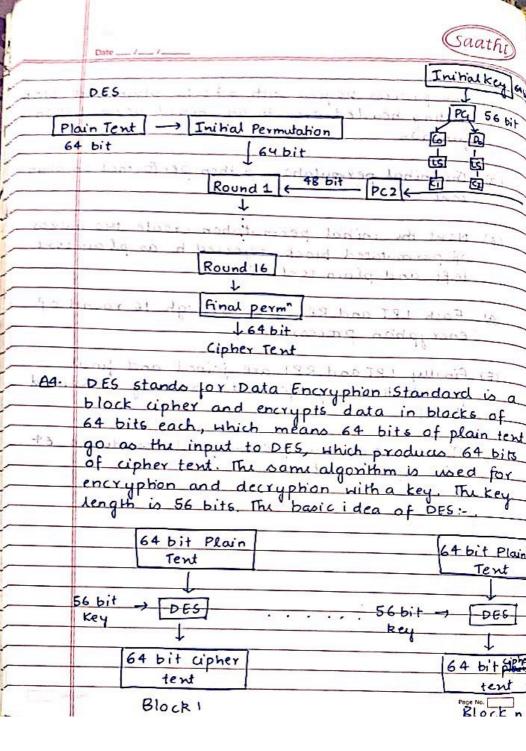
~	Name: Ansh Gupta SAP: 500075765 Roll: R177219035 Date				
AL (a)	Packet filtering firewall: applies a oct of rules to ear				
	incoming and outgoing ip packet and then forward discard the packet. Rules of filtering are as				
	discard the backet. Rules of filtering				
(K)_	source and destination ip address				
-12	source and destination transport laver address				
(*)	Interface				
	The state of the s				
1 13	The default policies are also there to take default				
1	determine whether to lorward discoul				
Jane 9	packet. 7 Default : discard				
-200	-> Default = forward				
	con sees hi log!				
	Some possible attacks on fixewall:-				
(x)	IP address spoofing				
(%)	Source routing attack				
(X)	Tiny fragment attacks				
	Application in the state of				
Jenny	Transport				
end	to transport Internet send to end transport				
وعيطمو	correction N/w access correction				
	Physical,				
(b)	Application prony firewall- An application level				
Luchbon	gateway also called an application proxy act as a rely of application - level traffic				
	a ray of appueation - revail traffic				
(X)	us ex request reques service as prony				
- (K)	prony validates request as legal				
Te Te	Page No.				
					

(KU_	a typical use of circuit level gale way is a situation in which the system administrator trust the internal users
A2.	Different type of security attacks in computer system =
	Cyber attacks are classified in two types:-
(a)	Web based attack
12 - 3 3 3	Thjection attack: in this some data will be injected into a web application to manipulate the application and jetch the required info
- dis-	DNS spoofing: is a type of computer security hacking where by data is introduced into a DNS resolver's cache causing the name server to return an incorrect IP address diverting traffic to attacker's computer.
	-> Session hijacking - is a security attack on a user session over a protected network. In this hacker stoles cookies
(b)	System based attack A and actions in 1/2
ص ال السلام	+ Virus: a type of malicious software program that spread throughout the computer files without the knowledge of the user. Its a self
7	replicating program.

users and another computer. Also called

for encryption and decryption

symmetric keys because the same key is used



Little			
The process be	gins with 64 bi	its plain to	nt blocks
netting headed	lover to an in	itial perm	utation
function.	r determined kuntril	- xx 5.	P. 11.
- Fundamental Property of the Control of the Contro	4100 113	9%	64 1
The initial pern	nutation is the	nex formed	on plain
tent.	1 1 5 DA DA	perjormen	
text			
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of permuarea	block referred	To as pro	
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		1 1/ 20	and of
Each LPT and	KPI goes thro	vgh 16 10	7
encryphion p	rocess.		
	Transcott not		
finally LPT an	d RPT are joir	ned and fi	nax
or mutation is	per ormed or	n neway co	MINION A
block	The state of the s	1)140 1) 1011	
The second second	norther during	9-11- 33:51	64
The Yeard of	this process pr	roduces de	DIVE OT
hit cipher t	ention of t	8 54 3 AQ 3	90
	and the br	vo dodeny	1033
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		(30 5 1	
52			1.5%
		*	
i i a	(5hc)	104 b.1 Ci	
		1~ 5+	
1		Block	Page No.
100		1000	