			(2 ½ Hours)	Date 2 2	
			(2 /2 Hours)	[Total Marks: 75]	
N.B	. 1) All qu	uestions are cor	npulsory.		
	2) Figur	es to the right i	ndicate marks.	1	
	3) Illusti	rations, in-dent	h answers and 1°		
	4) Mixin	g of sub-questi	ons is not allowed.	ns will be appreciated.	
	, =	e or sub-questi	ons is not allowed.		
Q. 1	Attemnt	ANY FOUR			
(a)		Omputer consists	om the following:		(20M)
(6)	What is a	in active attack	n security 2 St.	es of computer security?	(201.1)
(c)	Write a n	ote on Steganog	raphy	es of computer security? s types of active attacks.	
(d)					
	Plaintext	= they are attack	king from the north.	Algorithm with key size = 2	ŀ.
(e)	Explain E	dectronic Code	Book(ECR) mode in		
(f)	Differenti	ate substitution	and transposition techni	ptography.	
				ques.	
Q. 2	Attempt	ANY FOUR fre	om the following:		
(a)	write a no	ote on public key	Cryptosystem		(20M)
(b)	Describe	4.509 certificate	format		
(c)	Assume A	lice and Bob v	vish to communicate	cretly. Compute the shared	
4	secret key	using Diffie He	Ilman Key Exchange.	oredy. Compute the shared	ſ
- C	[Prime nu	mber $p = 7$, gen	erator $g = 3$, Alice's pri	vate key = 2, Bob's private	
(d)	key = 4			2, Bob's private	
(e)	Discuss the	HMAC algorith	m work?		
(f)	Explain ko	concept of a di	gital signature. Explain	its types.	
	Explain Ke.	rberos processin	g in detail.		
Q. 3	Attempt A	NV FOUD from	n the following:		
(a)	What is a fi	rewall? State on	n the following:	1.29	(20M)
(b)	Explain the	importance of v	d explain various types	of firewall.	(
(c)	What is S/N	MIME (Secure/A	Aultinumass Internal		
	key features	5.	dumpulpose internet M	ail Extensions)? Define its	
(d)	Describe IP	security archite	cture		
10)	State and ex	plain any 5 type	es of virus	S X X	
(f)	Write a note	on honeypots.	or virus.	실계설 보기 최	
1.5	0.00			ŞIII	
Q. 4	Attempt Al	NY FIVE from	the following:		
(a)]	Jenne terms	S:	8		(15M)
50 /	i. Cryp	tanalysis			
(b) 14	ii. Brute	Force Attack			
(b) 1	v nat is mes	sage authenticat	ion code?	THE PERSON NAMED IN	
(d) T	leine Con-	o common forms	s of malicious code.		
· Control Control	efend east v	cipher with key	size = 3, encrypt the me	essage "hide the gold and	
				Sorti and	
(f) E	volain the 1	ife evel-	of Hash function?		
	vhiem me II	ife cycle of virus	ses.		
	235	132	******		
	0.00	4			

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