Total No	o. of Qu	estions:7]	SEAT No. :								
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BCA-403; Advanced Networking And Network Security											
(Semester-IV)											
Time :31	Hours]			[Max. Marks :70							
		the candidates:	_								
1) 2)	_	ion No-1 (A and B) are co pt any two questions fron	•								
3)	Attem	pt any two questions fron	group-II.								
4)	Figur	es to the right indicate fu	ll marks.								
Q1) A)	Choos	e the approprite optic	ons.	[7]							
a)	SCT	TP is a transp	oort layer protocol								
	i)	Reliable	ii)	Connectionless							
	iii)	Connection oriented	iv)	None of these							
b)	In a	the key is ca	lled the secret key	7.							
	i)	Symmetric key	ii)	Asymmetric key							
	iii)	Either (i) or (ii)	iv)	Key							
c)) How many keys does the triple DES algorithm use?										
	i)	2	ii)	3							
	iii)	4	iv)	2 or 3							
d)											
	i)	Public key	ii)	Secret key							
	iii)	Private key	iv)	Plain key							
e)	Following are the internet security threats.										
	i)	TCP	ii)	Malware and spam							
	iii)	(i) & (ii)	iv)	Datamal							

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	f)	Tuni	nel mode IPSec protects the			
		i)	IP header	ii)	Entire IP packet	
		iii)	IP payload	iv)	One IP layer	
	g)	PKC stands for				
		i)	Public key case	ii)	Public key cryptograph	ıy
		iii)	Public key cipher	iv)	None of these	
	B)	Answer in one sentence				[7]
	a)	What is SMTP?				
	b)	What is process-to-process Delivery.				
	c)	Define term- stegnography.				
	d)	State	e the types of DES.			
	e)	Defi	ne trapdoor functions.			
	f)	Wha	at is digital certificate?			
	g)	Wha	nt is intrusion?			
			Group-I			
Q 2)	Ansv	wer tl	he following questions.			
	a)	State difference between stream & block cipher.				[5]
	b)	List possible types of attacks and explain it in details.			n details.	[5]
	c)	Explain UDP in details with diagram?				[4]
Q3)	Ansv	wer the following questions.				
	a)	Wha	nt are the advantages and disadvantage	ges o	f Diffie-Hellman?	[4]
	b)	Convert following text in to cipher text message using one time pad				
		NCBTZQARX. Message plain text-"How are you"				
	c)	Discuss different UDP operations?			I	[3]
	d)	Exp	lain password based Authentication	?	I	[3]

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Q4)	Ans	Answer the following questions.				
	a)	Explain structure of digital certificate?	[4]			
	b)	What are various uses of message digest?	[4]			
	c)	Explain four essential control excercised by a firewall?	[3]			
	d)	What are advantages of Asymmetric key cryptography.	[3]			
		Group-II				
Q5)	Ans	wer the following questions:				
	a)	Explain RSA Algorithm in detail.	[5]			
	b)	Explain virtual private network (VPN) and its features.	[5]			
	c)	Explain Architecture of TLS in details.	[4]			
Q6)	Ans	wer the following questions:				
	a)	Generate public and private keys using RSA algorithm, Given:P=11,q	=3. [4]			
	b)	Describe Audit records in detail.	[4]			
	c)	What are two main challenges faced by symmetric key algorithms?	[3]			
	d)	Discuss VPN tunneling protocol? & Give any two advantage of VP	N? [3]			
Q7)	Ans	wer the following questions:				
	a)	Explain CBC mode in details.	[4]			
	b)	What are two basic ways of transforming plaintext to ciphertext?	[4]			
	c)	Describe Multiplening in details.	[3]			
	d)	How can caesar cipher crack?	[3]			
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