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Seat	
No.	

T.Y. B.Tech. (Computer Science and Engineering) (Part - II) (CBCS) (Semester - V) Examination, January - 2023 INFORMATION SECURITY

Sub. Code: 80798

Day and Date : Friday, 13 - 01 - 2023 Total Marks : 7						
Instructions:		1) 2) 3)	All Questions are co Assume suitable dat Figures to the right i	ta wherever i		
Q1) Solv	ve Mo	CQs ((1Mark Each)		[14]	
a)	Pro	tectio	n of all user data in	single data	block is done by which service.	
	i)	Rep	udiation			
	ii)	Inte	grity			
	iii)	Con	nnectionless confidentiality			
iv) Both (i) & (ii)						
b)	The	Vern	nam Cipher is also	called as		
	i)	Poly	yalphabetic	ii)	Caesar	
	iii)	Hill	cipher	iv)	One time Pad	
, 1			sive mechanism _ ly used to facilitate		refered to data collected and adit.	
	i)	Sec	urity recovery	ii)	Event detection	
	iii)	Sec	urity audit trail	iv)	All the above	
d)	MA	AC stands for				
	i)	Message authentication code				
	ii)	Message authentication connection				
iii) Message authentication				control		
	iv)	Mes	ssage authentication	cipher		

e)	If any participant can send his or her public key to any other participant or broadcast the key to the community at large then this technique of key distribution is called as							
	i)	Publicly available directory	ii)	Public announcement				
	iii)	Public-key authority	iv)	Public-key certificates				
f)	Has	Hash function is a						
	i)	A function that maps a message of any length into a variable-length hash value, which serves as the authenticator						
	ii)	A function that maps a message of any length into a fixed-length hash value, which serves as the authenticator						
	iii)	Both (i) & (ii)						
	iv)	None of the above						
g)	Dig	Digital signature provides						
	i)	Authentication	ii)	Nonrepudiation				
	iii)	Both (i) & (ii)	iv)	Neither (i) & (ii)				
h)	In Kerberos, AS referred as							
	i)	Authorization Service	ii)	Authentication Service				
	iii)	Authentication Server	iv)	None of the above				
i)	Which e-mail standard relies on "Web of Trust"?							
	i)	Pretty Good Privacy (PGP)						
	ii)	Privacy Enhanced Mail (PEM)						
	iii)	MIME Object Security Services (MOSS)						
	iv)	v) Secure Multipurpose Internet Mail Extensions (S/MIME)						
j)	uniquely identifies the MIME entities uniquely with reference to multiple contexts.							
	i)	Content description	ii)	Content - id				
	iii)	Content type	iv)	Content transfer encoding				

	k)	At the lower layer of SSL, a protocol for transferring data using a variety of predefined cipher and authentication combinations called the					
		i)	SSL handshake protocol				
		ii)	SSL authentication protocol				
		iii)	SSL record protocol				
		iv)	SSL cipher protocol				
	1)	Whi	hich of the following is/are the types of firewall?				
		i)	Packet Filtering router	ii)	Application level gateway		
		iii)	Circuit level gateway	iv)	All of the above		
	m)	When people send you phone emails, pop-up messages, social media messages, texts, calls, or links to fake websites in order to hook you into giving out your personal and financial information.					
		i)	Plagiarizing	ii)	Skimming		
		iii)	Phishing	iv)	Identity Theft		
	n)	Wha	at is one of the most common a	ınd si	mplest attacks on a systen	1?	
		i)	i) Denial of service				
		ii)	Buffer overflow				
		iii)	Session hacking				
		iv)	Password cracking				
Q2)	Solv	e any	2 of the following (7 Marks E	ach)		[14]	
	a) Explain different types of attacks with example?						
	b)	Write and explain Diffie-Hellman Key exchange algorithm?					
	c) Explain Difference between Kerberos 4 and kerberos 5?						
Q3)	Solv	e any	y 2 of the following (7 Marks E	ach)		[14]	
	a)	Exp	lain Transposition Techniques v	with I	Examples?		
	b)	What is message authentication code? What are basics of MAC?					
	c)	Explain X.509 certification formats?					

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Q4)) Solve any 2 of the following (7 Marks Each)			
	a)	Explain 5 services of PGP?		
	b)	Explain SSL Handshake Protocol?		
	c)	Explain Pharming Attacks?		
Q5)) Solve any 2 of the following (7 Marks Each)			
	a)	Explain antireplay service?		
	b)	What is SET? Explain SET Participants and Requirements?		
	c)	Explain DOS and DDOS attack?		

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