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SARDAR PATEL UNIVERSITY EXTERNAL EXAMINATION

B.C.A. – 6th Semester
Subject: Information Security (US06EBCA01)
Time: 10:30 AM to 12.30 PM Date: 01-04-2016 Total Marks: 70

Q-1	Select	the correct answer for the followings:	[10]
	1.	Traffic analysis is the type of attack.	
		(a) Active attack	
		(b) Passive attack	
		(c) Service attack	
		(d) Both (a) & (b)	
	2.	is one type of security services.	
		(a) Data integrity	
		(b) Authentication	
		(c) Access control	
		(d) NonRepudiation	
	3.	threats exploit service flaws in computers to inhibit use	
		by legitimate users.	
		(a) Information access threats	
		(b) Access control	
		(c) Service threats	
		(d) Non of these	
	4.	is the original message or data that is fed into the	
		algorithm as input.	
		(a) Plaintext	
		(b) Encryption algorithm	
		(c) Secret key	
		(d) Ciphertext	
	5.	not a type of attack on encrypted messages.	
		(a) Known plain text	
		(b) Chosen cipher text	
		(c) Chosen text	
		(d) None of above	
	6.	is a mechanism that bypasses a normal security check.	
		(a) Logic bomb	
		(b) Trojan horse	
		(c) Bacteria	
	~	(d) Trapdoor	
	7.	Infection mechanism also referred as	
		(a) Infection spread	
		(b) Infection vector	
		(c) Infection propagation	
		(d) All of above	
	8.	The server in the DNZ needs only list a limited number	
		of public IP addresses.	
		(a) DNS	
		(b) NAT	
		(c) Proxy	
		(d) Firewall	

	9. Stateful firewall maintains a, which is a list of active	
	connection.	
	(a) Routing table	
	(b) Bridging table	
	(c) State table	
	(d) Connection table	
	10 controls access to service according to which user is	
	attempt.	
	(a) Service control	
	(b) Direction control	
	(c) User control	
	(d) Behavior control	
Q-2	Write answers for the followings: (ANY Ten)	[20
-	1. Define threat and attack.	[-0
	2. What do you mean by security mechanism and security services?	
	3. Define information access threats and service threats.	
	4. What is cryptography? Give name of its component?	
	5. What are the types of attacks on encrypted message?	
	Differentiate public key and private key.	
	7. Define virus and worm.	
	8. What do you mean by misfeasor?	
	9. Write the three parts of computer virus.	
	10. Define digital signature.	
	11. Can we use a secret key to both sign and verify a signature? Justify.	
	12. List types of firewall.	
Q-3	[A] Explain active attack in detail?	[6]
	[B] Write a note on data integrity categories for security services.	[4]
	OR	
Q-3	[A] Explain the network security model in detail?	[6]
	[B] Explain passive attack in detail?	[4]
Q-4	[A] Explain substitution and transposition cipher.	[6]
_	[B] Describe the applications for public – key cryptosystems.	[4]
	OR	. ,
Q-4	[A] Explain the conventional /symmetric encryption principles and model of	[6]
	symmetric encryption.	
	[B] List and explain categories of cryptography.	[4]
Q-5	[A] Explain the term virus kit, macro viruses, e-mail viruses.	[6]
	[B] Explain in detail trojan horses.	[4]
	OR	
Q-5	[A] Explain all phases during virus lifetime.	[6]
	[B] Write a short note on backdoor.	[4]
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Q-6	List the service of the digital signature and explain in detail.	[10
0-6	OR What is firewall? Explain need characteristics and limitations of financell in	[10
Q-6	What is firewall? Explain need, characteristics and limitations of firewall in detail.	[10
	Best of luck	
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