SARDAR PATEL UNIVERSITY BCA EXAMINATION, 6th SEMESTER Tuesday, 3th April, 2018 2:00 p.m. to 4:00 p.m.

US06EBCA01 [Information Security]

Maximum Marks: 70

Q-1	1)	Multiple Choice Question [Each Question of the process that is designed.]	carries one Mark] gned to detect, prevent or recover from a security.	[10]	
		a) Security mechanism	b) Security Attack		
	2)	c) Service attack	d) Threat		
	2)	is one type of Securi	ty services.	t	
		a) Data Integrity	b) Authentication		
		c) Access Control	d) NonRepudiation		
	3)	control is the ability to	imit and control the access to host system and		
		applications via communications links.			
		a) Authentication	b) Active & Passive		
		c) Access	d) none of above		
	4)		s performed by the algorithm depend on the		
		key.			
		a) plaintext	b) Encryption algorithm		
	# \	c) secret key	d) ciphertext		
	5)		at elements continuously, producing output one		
		element at a time.	,		
		a) Block Cipher	b) Stream cipher		
		c) Stream cipher	d) Block cipher		
	6)		a that is fed into the algorithm as input.	'	
		a) plaintext	b) Encryption algorithm		
		c) secret key	d) ciphertext		
	7)	is a mechanism that bypasses	a normal security check.		
		a) Logic bomb	b) Trojan horse		
		c) Bacteria	d) Trapdoor		
	8)	What the views does hesides appending is h	makeen aa		
• • •	0)	What the virus does besides spreading is kas a) Triggering	b) Dormant	•	
c1		c) Infection vector	d) Payload		
		c) infection vector	d) i ayload		
÷ ·	9).) server is a server that creates a secure tunnel connection.			
	-,	a) DNS	b) VPN		
		c) Tunnel	d) authentication		
		,	•		
	10)	Controls access to service acc	ording to which user is attempt.		
		a) Service control	b) Direction control		
		c) User control	d) Behavior control		
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Q-2	1	Give Answers for the following:(Any ten) Define threat and attack.	[20]	
	2	What do you mean by Access control and data confidentiality?		
	3	List the different types of security attacks.		
	4	What is cryptography? Give name of its component?	,	
	5	Difference between substitution and transposition ciphers.		
:	6	Define plain text and cipher text.		
	7.	What do you mean by misfeasor?		
	8	Write the approach used by the antivirus.		
	9	Define: Virus and Worm.		
	10	Write limitations of firewall.		
	11	What do you mean by application level gateway?		
	12	Define Digital signature.		
Q- 3	A)	Explain active attack in detail.	[5]	
	B)	List categories of security services and explain any one in detail.	[5]	
		OR	•	
Q- 3	A)	Explain passive attack in detail.	[5]	
	B)	Write a short note on Network Security Model.	[5]	
Q- 4	A)	Explain symmetric key in detail.	[5]	
	B)	Explain substitution cipher in detail.	[5]	
O- 4	A)	OR Explain public – key cryptography in detail.	[5]	
	B)	Explain the applications for public – key cryptosystems.	[5]	
	۵,	Explain the applications for paone – key cryptosystems.	[5]	
Q- 5	A)	Explain all phases during virus lifetime.	[5]	
	B)	Write a brief note on Intruders.	[5]	
		OR		
Q- 5	A)	Explain the term Virus kit, Macro viruses, E-mail Viruses.	[5]	
	B)	Classify the viruses in detail.	[5]	
Q- 6		What is firewall? Explain characteristics of firewall in detail with Goal, Scope, technique and limitations.	[10]	
Q- 6	٠	OR What is Digital Signature Process and services? Explain in detail.	[10]	