[48]

SARDAR PATEL UNIVERSITY

B. Sc. Information Technology, 6th Semester Wednesday, 04th April, 2018 US06CINT05: Information Security

Time: 10:00 AM to 01:00 PM Total Marks: 70

Note: Answer of all the questions (including Multiple Choice Questions) should be written in the provided answer book only

Q:1	Give	answers of following multiple cl	noice	questions	[10]
[01]	The attack attempts to alter system resources or affect their				
	(A)	ation. Active Passive	(B) (D)	Security None of these	
[02]	(A)	ch one is the category of the Active Release of Message Masquerade	attac (B) (D)	Traffic Analysis	
[03]	(A) (C)	is the protection of trans Confidentiality Access control	smitte (B) (D)	Authentication	
[04]	(A)	ckdoor, is also known as a Hidden door Logic Bomb	(B) (D)	Trapdoor None of these	
[05]	mod (A) (C)	is a piece of software th ifying them. Trojan Horse Virus		n "infect" other programs by Logic bomb None of these	
[06]	(A)	full form of ECB is Electronic Cipherbook Electronic Codebook	(B) (D)	Elective Codebook Hyper link	
[07]	(A)	full form of MDC is modification detection code modification document code	(B) (D)	message detection code None of these	
[08]	(A)	is one that is used only private key secrete key	y for t (B) (D)		
[09]	SSL (A) (C)	stands for Security Service Level Security Socket Layer	(B) (D)	Socket Service Level None of these	
[10]	The (A)	Pretty Good Privacy IPSec	de se (B) (D)	curity at the network layer. SSL / TLS None of these	

Q:2	Answer the following short questions (any Ten)					
	[01]	[01] What is Security attack? Also list out its categories.				
	[02]	02] Define Terms: Plaintext and Ciphertext				
	[03]	O3] List the fundamental principles of cryptography.				
	[04]	4] List various types of attacks performed on encrypted message.				
	[05]	5] Define: Virus and Worm				
	[06]	Define Malicious Software. Also list out its categories.				
	[07]	List the various security services.				
	[80]	D8] List the criteria for hash function.				
	[09]	09] Explain session key in brief.				
	[10]	10] Explain IPSec protocol in brief.				
	[11]	[11] Draw the diagram for tunnel mode.				
	[12]	Define firewall. Also list its types.				
Q:3	[A]	Write a detail note on Network Security Model.	[06]			
	[B]	Explain fundamental crypto graphical principles in brief.	[04]			
	<u>OR</u>					
Q:3	[C]	What is cryptography? Specify the basic terms of cryptography.	[06]			
		Also define its categories.				
	[D]	Explain transposition cipher in detail.	[04]			
Q:4	[A]	Explain the types of attacks performed on encrypted message.	[06]			
	[B]	Explain in brief phases of virus.	[04]			
	<u>or</u>					
Q:4	[C]	Explain ECB and CBC cipher modes in detail.	[06]			
	[D]	Explain in brief phases of virus.	[04]			
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. Q:5	[A]	Write a detail note on Message integrity.	[10]			
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Q:5	[B]	List the key management methods and explain any one of them in detail.	[10]			
Q:6	[A]	Explain Tunnel mode of IPSec in detail.	[05]			
	[B]	Explain Encapsulating Security Payload protocol in detail.	[05]			
<u>OR</u>						
Q:6	[C]	What is firewall? List the types of firewall and explain any one of them.	[06]			
	[D]	Explain Proxy firewall in detail.	[04]			
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