			or printed pages: 02	2
(27)	SEAT No. Sardar Pate	el University		
	External Exam B. Sc. VI th Semester (Ir		nology)	
	US06CINT05: I	nformation Secu		
Time	314 April, Wed 2: 10:00 am to 01:00 pm	dnesday - 2019	Total Marks :70	0
	Select the appropriate option.			10
1.	A process that designed to detect, pr	event or recover	from a security	
, the state of	Attack is known as			
	(a) Security Service (c) Security Attack	(b) Security Mechanism (d) None of these		
2.	The attack attempts to alter system resources or affect their			
	operation.			
_	(a) Passive (b) Active	-		
3.	is the original message or data that is involved into the algorithm as input.			
	(a) Ciphertext (b) Simpletext	(c) Plaintext	(d) None of these	
4.	The full form of ECB is			
	(a) Electronic Codebook (c) Elective Codebook	(d) None of these		
5.	The key used in conventional encryption is referred as a			
٥.	(a) Primary key (b) Public key	(c) Secret key	(d) None of these	
6.	If AES is designed with 128 bits size of data block and 12 no. of rounds			
	then it requires bits key size (a) 128 (b) 192	e. (c) 256	(d) None of these	
7.	A is one that is used on			
,.	(a) secret key (b) private key	(c) session key	(d) none of these	
8.	In signature there is	a one-to-many r	elationship between	
	a signature and documents. (a) Digital (b) Conventional	(c) Fingerprint	(d) None of these	
9.	In IPSec protects			
	(a) Tunnel mode	(b) Active mod	de	
	(c) Transport mode	(d) None of th	ese	
10.	A firewall filters at the app (a) packet filter (b) proxy	lication layer. (c) system	(d) none of these	
Q.2	Answer the following questions. (At	ttempt any TEN	I)	20
1.	Define passive attack with its types.			
2.	Define security services. Also write down its categories.			
3.	List the fundamental principles of cryptography.			
4.	Explain in brief Triple DES.			
5.	Define: Logic Bomb and Backdoor.			

List various types of attacks performed on encrypted message. 6. List the various security services. 7. 8. How HMAC is generated? List the various ways for public key distribution. Draw the diagram for transport mode. 10. Explain IPSec protocol in brief. 11. 12. Write a difference between Packet-filter firewall - Proxy firewall. Q.3 [a] Write a detail note on Network Security Model. 5 [b] Explain transposition cipher in detail. 5 OR Q.3 [a] Explain conventional encryption principles. 5 [b] What is cryptography? Specify the components of cryptography. Also 5 define its categories. Q.4 [a] Write a detail note on Data Encryption Standard. 5 [b] Explain Intruder Behavior Patterns with at least two examples. 5 OR Q.4 [a] Explain different cipher modes in detail. 5 [b] Explain Virus Structure in detail. 5 Q.5 Explain Entity Authentication Methods in detail. 10 Q.5 List the key management methods and explain any two of them in 10 detail. Q.6 [a] List and explain SSL protocols in detail. 5 [b] What is firewall? List the types of firewall and explain any one of 5 them. OR Q.6 [a] Write a brief note on needs of firewall. 5 [b] Explain various services performed by Pretty Good Privacy protocol. 5

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