St. Thomas' College of Engineering & Technology B. Tech. 7th Semester, 1st Internal Examination, May 2021

Cryptography & Network Security(CS801D)

Full Marks: 25 Time: 50 Min.

Group - A

	i) T	he	attack is related to availability.				
		,	interception				
		b)	fabrication				
	c		modification				
		d)	interruption				
	ii) A		replicates itself by creating its own copies, in order to bring the network to				
	ł	ıalt.					
		a)	virus				
			worm				
			trojan horse				
		d)	bomb				
	iii) .	A pro	babilistic study for implementing different attacks based on the knowledge of				
			sh language is performed by a cryptanalyst when he/she encounters a ciphertext that				
			een encrypted using				
			homophonic substitution cipher				
			polygram substitution cipher				
			mono-alphabetic cipher				
		d)	polyalphabetic substitution cipher				
	iv)		increases the redundancy of plaintext by spreading it across rows &				
		colun	nns.				
			confusion				
		b)	diffusion				
			both (a) & (b)				
		d)	neither of them				
v) DES encrypts blocks of bits.							
		a)	32				
		b)	56				
		c)	64				
		d)	128				
,	vi) (stands for?				
			Challenge Handshake authentication protocol				
			Challenge Hardware authentication protocol				
		c) (Circuit Hardware authentication protocol				

d) Circuit Handshake authentication protocol

	vii) In asymmetric key cryptography, The private key	
	a) must be distributed	
	b) must be shared with everyone	
	c) must remain secret with an individual	
	d) none of the above	
	viii) The full form of Malware is	
	a) Malfunctioned Software	
	b) Multipurpose Software	
	c) Malicious Software	
	d) Malfunctioning of Security	
	ix) When there is an excessive amount of data flow, which the system canno	t handle,
	attack takes place.	
	a) Database crash attack	
	b) DoS (Denial of Service) attack	
	c) Data overflow Attack	
	d) Buffer Overflow attack	
	x) This attack can be deployed by infusing a malicious code in a website's co	omment section.
	What is "this" attack referred to here?	
	a) SQL injection	
	b) HTML Injection	
	c) Cross Site Scripting (XSS)	
	d) Cross Site Request Forgery (XSRF)	
	$\underline{\mathbf{Group}} - \underline{\mathbf{B}}$	
2.	a) Citing specific examples explain the concepts of Phishing & Pharming.	
	b) Explain the concept of Vignere Cipher.	(3+2)
3.	a) Consider a scheme involving the replace of alphabets as follows:	
	Original A B C X Y Z	
	Changed to Z Y X C B A	
	If Alice sends a message EWPYMOWZAYQ to Bob, what will he infer from	this?
	b) Discuss the differences between Confusion & Diffusion.	(3+2)
	b) Discuss the differences between confusion & Diffusion.	(3+2)
4.	Distinguish between Symmetric & Asymmetric Key cryptographic techniques by	citing suitable
	examples & drawing appropriate diagrams whenever necessary.	(5)

OUTCOME BASED EDUCATION (OBE)												
CO mapping With Bloom's Level												
Question	Q1	Q2		Q3		Q4						
No.		a	b	a	b							
Course	1	1	2	2	2	3						
Outcome												
Bloom's	1	3		5		4						
Level (in												
fig)												