Exam Seat No:	Enrollment No:
	C.U.SHAH UNIVERSITY

Wadhwan City

Subject Code : 5TE02ANS1**Summer Examination-2014** Date: 30/06/2014

Subject Name: Advance Cryptography & Network Security

Branch/Semester:- M.Tech(CE) /II Time:2:00 To 5:00

Examination: Regular

Instructions:-

(1) Attempt all Questions of both sections in same answer book / Supplementary

- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4)Draw neat diagrams & figures (If necessary) at right places

		SECTION-I				
Q-1	Att	Attempt following Questions.				
	a)	Differentiate Substitution and Transposition Techniques.	2			
	b)	Define Authentication. Explain different types of Authentication.	2 2			
	c)	If sender Sends plaintext as "information", Find Ciphertext Using Rail fence.				
	d)	Define one-way property.	1			
Q-2	a)	Describe Data Encryption standard.	5			
	b)	Explain Key Distribution Scenario with suitable diagram.	5			
	c)	Write Short Note on Blum Shub Generator	4			
Q-2	a)	Using RSA Algorithm, two prime numbers p=7, q=29 and M=6 find e, d and	5			
		Ciphertext.				
	b)	Explain Security Attack with examples your restriction	5			
	c)	Write Short note on Digital Signature Algorithm.	4			
Q-3	a)	Explain Block Cipher Modes of operation.	7			
	b)	Using Hill Cipher Plaintext as "Paymoremoney" and key as First row as 17 17 5 Second row as 21 18 21 third row as 2 2 19 Find out Ciphertext.	7			
		OR				
Q-3	a)	Explain Advanced Encryption Standard.	7			
Q J	b)	Using Hill Cipher Ciphertext as "pqcfku" Find Plaintext.	7			
		SECTION-II				
Q-4	Atı	Attempt following Questions.				
	a)	Differentiate SET and SSL.	2			
	b)	Write Full form of virus. Explain use of Virus.	2			
	c)	What is the function of TGS?	2			
	d)	Which techniques are Unbreakable and Why?	1			
Q-5	a)	Explain Diffie – Hellman Key Exchange with Example.	5			
	b)	List and briefly explain authentication functions.	5			
	c)	Write Short Note on Web Security Consideration.	4			
		OR				



Q-5	a)	Explain Function of PGP.		5
_	b)	Explain the requirements of authenti-	cation function.	5
	c)	Explain Worms and Trojan Horse.		4
Q-6	a)	Explain Secure Hash Algorithm.		7
	b)	Explain SSL Architecture.		7
		1	OR	
Q-6	a)	Explain HMAC.		7
	b)	Explain Firewall Design Principle.		7

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