Enrollment No: Exam Seat No:  C.U.SHAH UNIVERSITY  Summer Examination-2019						
Subject	t Nam	e: Cryptography and Network	Security			
Subject Code: 4TE06CNS1			Branch: B.Tech (CE,IT)			
Semest	er: 6	Date: 30/04/2019	Time: 10:30 To 01:30	Marks: 70		
(2) (3)	Use of Instru Draw	of Programmable calculator & an actions written on main answer be neat diagrams and figures (if neme suitable data if needed.	ook are strictly to be obeyed.	rohibited.		
Q-1	b) c) d) e) f)  g) h) i) k) l) m) n)	Text. What is the use of Euclidean Alg Why One time Pad technique is What is Anomaly Based Intrusion Define Firewall. What are the advantages of IPSe Difference between Block Ciphe What is Steganography? What is the use of X.509?	hentication.  I. Inputer" using Rail Fence Find Ougorithm? Unbreakable? In detection?  In detection?  In detection?  In detection of the condens of the cond	(14)		
-	t any	four questions from Q-2 to Q-8	8			
Q-2	<ul><li>a)</li><li>b)</li></ul>	Attempt all questions Describe the term: Authentication repudiation and Access Control. Discuss Data Encryption Standa		(14) (07) (07)		
Q-3	a)	Attempt all questions Explain Playfair and Encrypt the "GUJAR" using PLAYFAIR ted	e Message "Surgical Strike" with chnique.	(14) key (07)		
	<b>b</b> )	Write a Short Note on "Internation	ional Data Encryption Algorithm	". (07)		



a) P and Q are two prime numbers. P=7, and Q=17. Take public key E=5. If

Q-4

Attempt all questions

**(14)** 

**(07)** 

	<b>b</b> )	RSA algorithm? Explain in detail. Explain Blowfish encryption algorithm.	(07
	D)	Explain Blownsh energenon argorithm.	(07
Q-5		Attempt all questions	(14
	a)	Encrypt the message "meet me Party" using the Hill cipher with the key {9 4} and {5 7}	(07
	<b>b</b> )	Explain Diffie Hellman key exchange algorithm.	(07
Q-6		Attempt all questions	(14
	a)	Explain Handshake protocol in SSL.	(07
	<b>b</b> )	What problem was Kerberos designed to address? Briefly explain how session key is distributed in Kerberos.	(07
Q-7		Attempt all questions	(14
	<b>a</b> )	Write a detailed note on Secure Hash Algorithm.	(07
	<b>b</b> )	Explain PGP with its Authentication and Confidentiality Operation.	(07
Q-8		Attempt all questions	(14
	a)	What is the limitation of Electronic Codebook Mode (ECB)? How it is overcome by Cipher Block Chaining (CBC) mode? Also explain CBC mode in detail	(07
	b)	What is a dual signature? Explain in detail the following transactions supported by SET(secure electronic transaction) (i) Purchase request	(07
		(ii) Payment authorization	

