GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – II • EXAMINATION – WINTER 2012

Subject code: 1720205 Date: 02/0 Subject Name: Cryptography and Network Security			1/2013	
Time	e: 10	0.30 am – 01.00 pm Total Marks	: 70	
Insti	uct	ions:		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Explain the following security terms with proper example. Non-repudiation, Integrity, Authentication	06	
	(b)	What do you mean by secret key cryptography? Discuss the design parameters for secret key algorithm.	08	
Q.2	(a)	What do you mean by security attack? Give its classification with examples.	07	
	(b)	1	07	
	(b)	What is triple DES? What are the proposed attacks on triple DES?	07	
Q.3	(a) (b)		07 07	
		OR		
Q.3	(a)	How can you use public key cryptosystem for the authentication? Explain it with proper diagram.	07	
	(b)	What is hash function? Show its use in security.	07	
Q.4	(a)	Explain the functioning of the Kerberos.	07	
	(b)	Explain the working of the firewalls to protect the network. OR	07	
Q.4	(a)	What do you mean by Virtual Private Network? Explain it with proper diagrams.	07	
	(b)	6	07	
Q.5	(a)	Discuss the measures to protect the computer systems and networks from the worms and viruses.	07	
	(b)	Discuss the use of Secure Electronic Transaction with example. OR	07	
Q.5	(a) (b)		07 07	
