Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014** 

Subj	ect (	Code: 160702 Date: 21-05-2014	
Subj	ect l	Name: Information Security	
Time	e: 10	2:30 am - 01:00 pm Total Marks: 70	
Instru	ction	s:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Explain various types of attack on computer system.	07
	<b>(b)</b>		07
Q.2	(a)	Explain the conventional security model used for information security.	07
	<b>(b)</b>	Explain cryptanalysis. Discuss any one technique for it	<b>07</b>
		OR	
	<b>(b)</b>	What attacks can be done on encrypted text? Explain them.	07
Q.3	(a)	Compare public key and private key cryptography. Also list various algorithms for each.	07
	<b>(b)</b>	With the help of example explain how can we find out GCD of two numbers using Euclid algorithm	07
		OR	
Q.3	(a)		
	<b>(b)</b>	Explain play fair cipher with suitable example.	
Q.4	(a)	Explain limitation of DES in detail.	07
	<b>(b)</b>	List and Explain various key management techniques.	<b>07</b>
		OR	
Q.4	(a)	Explain RSA algorithm	<b>07</b>
	<b>(b)</b>	How can we achieve web security? Explain with example.	07
Q.5		Write a note on followings (Any 4)	14
		(a) Pretty Good Privacy	
		(b) Kerberos	
		(c) Hill cipher	
		(d) Elliptic curve cryptography	
		(e) Diffi hellman key exchange.	
		(f) Message Authentication code	

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