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

Enrolment No.\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI • EXAMINATION - WINTER • 2014

Subject Name: Information Security Time: 02:30 pm - 05:00 pm Instructions:  Total Marks:			2014
		Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	What is security Services? Explain any three types of security services. Explain Vegenere Cipher.	07 07
Q.2	(a) (b)	Define Block Cipher. Explain Design Principles of block cipher. What is primitive root? Explain Diffi-Hellmen key exchange algorithm with proper example.	07 07
	<b>(b)</b>	OR Elaborate various kinds of attacks on RSA algorithm.	07
Q.3	(a) (b)	Explain DES algorithm with Figure. Explain MD5 Algorithm.	07 07
Q.3	(a) (b)	<b>OR</b> Explain Sub key generation Process in Simplified DES algorithm with Example. Explain SHA512 Algorithm.	07 07
Q.4	(a) (b)	Write Short note on S/MIME. Explain Kerberos Authentication System.	07 07
Q.4	(a) (b)	OR Explain Key Distribution methods. Explain Modes of Operations.	07 07
Q.5	(a) (b)	Explain Secure Socket Layer Protocol. Explain Active Directory Services of Windows 2000 Server.  OR	07 07
Q.5	(a) (b)	Explain Secure Electronic Transaction Protocol. Explain Security of E-Commerce.	07 07

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