Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (OLD) EXAMINATION WINTER 2017

Subject code: 160702 Subject Name: Information Security	Date: 20-11-2017	
Time: 02:30 pm to 05:00 pm	Total Marks: 70	
 Instructions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 		
Q.1 (a) Explain data confidentiality ,data authentication and non-re (b) Describe mono alphabetic cipher.	epudiation [7] [7]	
Q.2 (a) Explain generation of encryption matrix in play fair ciphe (b) Explain one time pad cipher with example. OR	r. [7] [7]	
(b) Explain columnar transposition Cipher technique.	[7]	
Q.3 (a) Explain working of two wheel rotor machine.(b) Explain single round of DES. OR	[7] [7]	
Q.3 (a) Explain process of MD5 algorithm. (b) Explain key generation using RSA algorithm.	[7] [7]	
Q.4 (a) Explain inter realm authentication of Kerberos. (b) Which are various SET participants. OR	[7] [7]	
Q.4 (a) Explain HMAC algorithm. (b) Explain Diffie Hellman key exchange algorithm.	[7] [7]	
Q.5 (a) Write a short note on S/MIME. (b) Explain X.509 Directory Authentication Service. OR	[7] [7]	
Q.5 (a) Explain transaction on E-commerce. (a) Write a short note on Pretty Good Privacy.	[7] [7]	
