Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## ME - SEMESTER- III • EXAMINATION - WINTER 2015

Subject Code:3735302 Subject Name: Security in Wireless & Mobile Systems Time: 02:30 PM to 05:00 PM Instructions:  Date: 07/1 Total Ma			Date: 07/12/2015	
		ks: 70		
	1. 2. 3.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a) (b)	Discuss the security issues in wireless and mobile communication? What is Symmetric and Asymmetric Cryptography? Explain the encryption and decryption of Hill cipher?		
Q.2	(a) (b)	Explain the Diffie-Hellman Key Exchange algorithm? Explain the Digital Signature Algorithm (DSA)?  OR	07 07	
	<b>(b)</b>	Discuss ELGAMAL DSS and SCHNORR DSS?	07	
Q.3	(a) (b)	Explain ECC Diffie-Hellman Key Exchange? Explain IPSec with reference to network layer?  OR	07 07	
Q.3	(a) (b)	Explain Privacy-Enhanced Electronic Mail (PEM)? Explain transport-level security?	07 07	
Q.4	(a) (b)	Explain Mobile IP with respect to wireless security? Discuss WTLS protocol?	07 07	
Q.4	(a) (b)	OR Explain VOIP? List types of DSM and COMINT Receivers? Explain any two?	07 07	
Q.5	(a) (b)	Discuss Software vs. Hardware Implementation of Wireless Security? Explain Direct-Sequence Spread-Spectrum Systems Interception?  OR	07 07	
Q.5	(a) (b)	Discuss Configurable versus Non-Configurable Hardware? Explain SAW technology?	07 07	

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