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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



II SEMESTER M.TECH (COMPUTER SCIENCE AND INFORMATION SECURITY) END SEMESTER EXAMINATIONS, MAY 2016

SUBJECT: MOBILE AND WIRELESS SECURITY [CSE 572]

REVISED CREDIT SYSTEM

DATE:12-05-2016

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

	*	Answer ANY FIVE FULL questions.	
		Missing data, if any, may be suitably assumed.	
1A. V	With near	t diagram explain extended trust negotiation protocol to support privacy.	3M
1B. E	Explain e	ight different categories of mobile malware.	4M
1C. I	Explain f	our security problems associated with the GSM operation.	3M
2A. I	Describe	the subscriber related information contained in SIM card?	4M
2B.	With nea	t diagram describe GSM protocol architecture.	3M
		lassification of five attacks on 3G networks based on their type.	3M
3B. V	With neat	Kim's electronic cash protocol for mobile payments. Mention its drawback diagram explain hidden node problem in wireless network and how it can	be
	solved.		3M
3C. I	Explain v	hy jamming is major threat to Bluetooth security.	3M
		the authentication issue within ad hoc networks.	2M
	Vith neat this proto	diagram explain optimized link state routing protocol and explain one attacol.	ck on 4M
4C. V	With neat	diagram explain Diffie-Hellman key agreement technique within MANE	Γs.4M
		diagram briefly explain RFID system architecture and its components.	2M
5B. E	Explain f	ive security requirements for RFID system.	4M
5C. I	Explain tl	ne protocol of the Ohkubo scheme for secure RFID system. Analyze wheth	ner it
S	satisfies a	all the five security requirements.	4M
6A. I	Explain f	our categories of threats to mobile VoIP.	3M
6B. I	Explain s	ecurity requirements for wireless sensor networks (WSNs).	3M
6C. I	Explain µ	TESLA protocol for authenticated broadcast in WSNs.	4M

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