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mCIT - 201 M.E./M.Tech., II Semester Examination, December 2015 Information Security System Time: Three Hours Maximum Marks: 70			tereson makes	5.	a)	What is Diffie-Hellman problem? Explain any algorithm to solve this problem.	one 7
			6.	b)	What are the principal elements of a public cryptosystem? Write the role of public key and pri key.		
				a)	List four general categories of schemes for distribution of public keys.	the 7	
Note: i) Attempt any five questions. ii) All questions carry equal marks.					b)	Briefly explain Diffie-Hellman key exchange.	7
1	. a)	Explain DES Encr	yption method. Write the strength	_7.	a)	Draw a diagram and explain the term KERBEROS.	7
	,	of DES.		d8.	b)	Describe Digital Signature. What are the properties	of a
	-b)	What is the differe Cryptanalysis?	t is the difference between linear and differentia tanalysis?			digital signature should have?	7
2.	. a)	Write the principles of Block Cipher. Why do some block cipher modes of operation only use encryption while other use both encryption and decryption.		nlm.	Wr	ite short notes on any two:	14
			e.com	a) b)	Elliptic Curve Cryptography PKI		
	b)		Cipher? Explain the stream ciphers		c)	Modular square root problem	4
			based on linear feedback shift registers.		d)	Integer factorization problem	
3	. a)	Write the properties remainder theorem.	Write the properties of modulo operator. Explain Chinese remainder theorem.		*****		
	b)	What basic arithmet MD5?	rical and logical functions are used in	3			***
4	. a)	Compare SHA-1 compression function	and MD5 techniques. Also write ons.			in a management of the company of	
*	b)	What is the diffe big-endian format?	rence between little endian and			ranyonli	no com

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