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700			Reg. No.:			
			Question Paper Code: 80304			
		B.E./B.Tec	h. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.			
			Seventh Semester			
			Computer Science and Engineering			
		CS	6701 — CRYPTOGRAPHY AND NETWORK SECURITY			
			Common to Seventh Semester Information Technology)			
		,	(Regulations 2013)			
	Time	e : Three ho		narks		
	11111	e. Three he	Answer ALL questions.			
			PART A — $(10 \times 2 = 20 \text{ marks})$			
		C				
	1.	Compare active and passive attack. Find gcd (1970, 1066) using Euclid's algorithm.				
	3.		strengths of triple DES.			
	4.		n elliptic curve?			
	5.		three requirements for authentication.			
	6.		iste MAC and Hash function.			
	7.	List the t	hree classes of intruders.			
	. 8.	Define Zo	ombie.			
	9.	List the l	imitations of SMTP/RFC 822.			
	10.	Define Bo	otnets.			
			PART B — $(5 \times 16 = 80 \text{ marks})$			
	11.	(a) (i) (ii)	Explain OSI Security Architecture model with neat diagram. Describe the various security mechanisms.	(8) (8)		
			Or			
		(b) (i)	State Chinese Remainder theorem and find X for the given congruent equations using CRT. X = 2(mod 3) X = 3(mod 5) X = 2(mod 7).	set of		
		(ii)	e i n dulinin	(8)		

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(a)	Explain AES algorithm with all its round functions in detail. (16)
	Or
(b)	Explain RSA algorithm, perform encryption and decryption to the system with $p=7; q=11; e=17; M=8.$ (16)
(a)	Describe MD5 algorithm in detail. Compare its performance with SHA-1. (16)
	Or
(b)	Explain digital signature standard with necessary diagrams in detail.(16)
(a)	Discuss Client Server Mutual authentication, with example flow diagram. (16)
	Or
(b)	Explain the technical details of firewall and describe any three types of firewall with neat diagram. (16)
(a)	Discuss the working of SET with neat diagram. (16)
	Or
(b)	Explain the operational description of PGP. (16)
	(b) (a) (b) (a) (b) (a)

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