Total No	o. of Questions :6] SEAT No. :			
P286	<u> </u>	No. of Pages :2		
1 200	Oct./BE/ Insem 604	110. 011 ages .2		
B.E. (Information Technology)				
INFORMATION AND CYBER SECURITY				
	(2015 Pattern) (Semester-I)			
Time : 1	1 Hour]	Max. Marks :30		
	ions to the candidates.			
1)	Solve Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6.	Ca		
2)	Draw neat diagrams wherever necessary.			
<i>3</i>)	Figures to the right indicate full marks.			
Q1) a)	Categories different attacks. Differentiate between Activ	-		
	attacks.	[4]		
b)	Explain different security goals (Security Services) in deta	il. [6]		
	OR			
0.2)		.1 1 CIDG		
Q 2) a)	What is an IDS? What are different types and different me	ethods of IDS. [6]		
		[0]		
b)	Write short note on Security threats and vulnerabilities.	[4]		
	6.1			
Q3) a)	Determine the value of X using Chinese remainder theorem	n 5 [4]		
Q3) a)				
	X=1 (mod 5) X=6 (mod 7) X=8 (mod 11)			
b)	Explain ECB,CBC,CFB and OFB modes of operation with	neat diagram.		
		[6]		
	OR			
Q4) a)	Let the given data be-two prime numbers p=7, Q=11, Pla	ain text=8 and		

Let the given data be-two prime numbers p=/, v=11, Fiam text-o and public key e=17. Using RSA algorithm perform encryption and decryption.

[5]
Explain ElGamal encryption algorithm with example.

b)

P.T.O.

Q 5) a)	How AH and ESP protocols works under transport and tunnel m	iode.[b]
b)	What is Digital certificate? Explain X.509 with neat diagram.	[4]
	OR	
Q6) a)	What problem was Kerberos designed to address? Explain its w	orking. [8]
b)	What is Digital signature and how it works?	[2]
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