Total No	o. of Questions :6] SEAT No. :		
P286	[Total No. of Pages :2		
1 200	Oct./BE/ Insem 604		
B.E. (Information Technology)			
INFORMATION AND CYBER SECURITY			
(2015 Pattern) (Semester-I)			
	2013 Fattern) (Schiester-1)		
Time : 1	Hour] [Max. Marks :30		
Instructi	ons to the cardidates:		
1)	Solve Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6.		
2)	Draw neat diagrams wherever necessary.		
3)	Figures to the right indicate full marks.		
Q1) a)	Categories different attacks. Differentiate between Active and passive		
	attacks. [4]		
b)	Explain different security goals (Security Services) in detail. [6]		
	OR		
Q 2) a)	What is an IDS? What are different types and different methods of IDS.		
b)	Write short note on Security threats and vulnerabilities. [4]		
02)			
Q3) a)	Determine the value of X using Chinese remainder theorem. [4]		
	$X=1 \pmod{5}$ $X=6 \pmod{7}$ $X=8 \pmod{11}$		
b)	Explain ECB,CBC,CFB and OFB modes of operation with neat diagram.		
	[6]		
	OR S		
Q4) a)	Let the given data be-two prime numbers p=7, Q=11, Plain text=8 and		

public key e=17. Using RSA algorithm perform encryption and decryption.

[5]

Explain ElGamal encryption algorithm with example.

[5]

P.T.O.

b)

Q 5) a)	How AH and ESP protocols works under transport and tunnel mode.	[6]
b)	What is Digital certificate? Explain X.509 with neat diagram.	[4]
	OR	
Q6) a)		ng. [8]
b)	What is Digital signature and how it works?	[2]
	What is Digital signature and how it works? ****	
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