Total No. of Questions : 6]	SEAT No.:
P74	[Total No. of Pages : 2

		APR-17/BE/Insem85	
		B.E. (Computer Engineering)	
CYBER SECURITY			
(Elective - III(d)) (Semester - II) (2012 Pattern)			
Time	Time: 1 Hour] [Max. Marks:		
Instr		ons to the candidates:	
	1) 2)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6. Neat diagrams must be drawn wherever necessary.	
	<i>3)</i>	Figures to the right indicate full marks.	
	4)	Assume suitable data if necessary.	
Q1)	a)	List and explain categories of information security. [5]	
	b)	What are the various security services. [5]	
OR			
Q2)	a)	Draw and explain operational model of security. [5]	
	b)	What is cryptanalysis? Explain various attacks performed by cryptanalysis. [5]	
Q3)	a)	What is stegnography? What are applications and limitations of stegnography? [5]	
	b)	Use transposition cipher to encrypt message "WE ARE THE BEST" use key "HEAVEN". [5]	
OR			
Q4)	a)	What is block cipher? Explain counter mode of block cipher. [5]	
	b)	Explain operation of DES algorithm in detail. [5]	

P.T.O.

- **Q5)** a) What is public key cryptography? Explain RSA algorithm used for public key cryptography. [5]
 - b) What are different approaches of public key distribution? Explain any one. [5]

OR

- **Q6)** a) What is Message digest? Compare MD5 with SHA-1. [5]
 - b) What is digital signature? Explain digital signature standard. [5]



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