Total No. of Questions : 6]	300	SEAT No. :
P613		[Total No. of Pages : 2

BE/Insem/APR - 246

B.E. (Computer Engineering) INFORMATION AND CYBER SECURITY (2015 Pattern) (Semester - II)

		(2015 Pattern) (Semester - II)	
Time	:1 E	Hour] [Max. Marks : 3	0
Instri	ıctioi	ns to the candidates :	
	1)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6.	
	2)	Neat diagrams must be drawn wherever necessary.	
	3)	Figures to the right indicate full marks.	
	4)	Assume suitable data, if necessary.	
Q 1)	a)	Explain Operational Security Model for Network Security. [5]	5]
	b)	How Information Security attacks are classified? Give example for each OR	
Q2)	a)	What are different security policies? Explain. [5	5]
	b)	List the differences between Security & Privacy.	31
Q3)	a)	Use PlayFair Cipher to encrypt the message "This is a columna transposition". Use key - APPLE.	
	b)	Explain following algorithm modes [5	51
		i) ECB	•
		ii) OFB	
		OR OR	
Q4)	a)	Explain the operation of DES algorithm in detail. [5]	5]
	b)	Explain Monoalphabetic & Polyalphabetic ciphers with appropriat examples.	

P.T.O.

Q5) a) Find the key exchanged between Alok and Bobby considering following data.

- i) n = 11
- ii) g = 5
- iii) X = 2, Y = 3

Find value of A, B and secret key K.

[5]

b) What is Kerberos? Explain operation in detail.

[5]

OR

Q6) a) Given two Prime Numbers P = 17 & Q = 29 find out N, E, & D in an RSA encryption process.[5]

b) Explain in details the need & implementation of one way hash function (MD5). [5]

