B.E.(with Credits)-Regular-Semester 2012 - Information Technology Sem VIII IT8044 - Elective-III : Information Security System

P. Pages : 1 Time : Three Hour					GUG/W/16/7097 Max. Marks : 80	
1.	Note a)	2. 3. 4. What is	Illustrate your answe the difference betwee	narks as indicate ven to neatness ers wherever nec en passive and A	1	8
	b)	·				8
				0		0
2.	a) b)		briefly define categor nort note on:	ries of security i	nechanisms.	8 8
	0)		ta Integrity	b)	Data confidentiality	0
3.	a) b)		e the two general appr substitution and Tran		ting a Cipher. Explain each in detail. ique with example.	8 8
		OR				
4.	a) b)	Explain playfair cipher with example. Decipher the message YITJP GWJOW FAQTQ using the hill cipher with inverse key $\begin{pmatrix} 5 & 1 \\ 2 & 7 \end{pmatrix}$ Show your Calculation and Result.				8 8
5.	a) b)	key cryp	otography.		stems. Also state the requirements for public cking the RSA algorithm. Explain each in	10 6
				0	R	
6.	a) b)	Explain RSA Algorithm with an example. Write short notes on public key cryptosystems with proper diagram.				8 8
7.	a)	Explain Transport and Tunnel modes with respect to AH and ESP.				8
	b)	Write short note on oakley key determination protocol.				8
				0		
8. 9.		-	with proper diagram	Kerberos in deta ii)	iil. S/MIME	16 16
				0		
10.	a) b)	-	Intrudes and also exp		-	10
	b)	List and	explain the character	******		6