B.E. Information Technology Eighth Semester IT8044 - Elective-III : Information Security System

GUG/W/18/2054

P. Pages : 1 Time : Three Hours			S		GUG/W/18/2054 Max. Marks : 80	
	Note	es : 1. 2. 3. 4. 5.	Same Answer book must l All questions are compuls All questions carry equal Due credit will be given to Assume suitable data whe	ory. marks. o neatness	and adequate dimensions.	
1.	a)	Explain the key principles of security with suitable example.				8 8
	b)	What is a vulnerability? Explain by giving suitable example. OR				
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2.	a)	Discuss different types of security breaches.				
	b)	What is intrusion detection system? Explain in detail.				
3.		What is AES? What are the major parameters used in AES? Explain the processing of plain text with a suitable diagram.				
4.	a)	What is the purpose of the S-Boxes in DES? What is the criteria to design S-Boxes?				10
	b)	Write note with proper diagram on key distribution scenario.				6
5.	a)	What is the strength of RSA? Explain.				8
	u) b)	Write n				8
	- /		gital signature.	ii)	Digital certificate.	
6.		OR Explain Diffie Hellman key Exchange Algorithm in detail. What is "Man-in-the middle attack" on Diffie Hellman algorithm?				16
7.	a)	What is	X.509 certificate? Discuss			8
	b)	Write n	ote on.			8
		i) Pa	cket sniffing.	ii)	Packet spoofing.	
8.	a)	Explain	OR ain in detail IP security architecture.			
	b)	Write n	-			8 8
		i) Ke	erberos.	ii)	Web Security Requirements.	
9.	a)	What a	the services provided by PGP? Why it is required?			
	b)	Write a	note on SSL.			
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10.		Explain i) Ele iii) VI	ectronic Mail Security.	ii) iv)	Intrusion Detection System. Distributed intrusion detection.	16

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