B.E. Eighth Semester (Computer Science & Engineering) (C.B.S.) **Information & Cyber Security**

	ages: le: Th	2 ree Hour		/ KW/16/7609 Max. Marks : 80
	Note	s: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions. Assume suitable data whenever necessary. Diagrams should be given whenever necessary with the help of neat sketch	es.
		12.	Use of non programmable calculator is permitted.	
1.	a)	Explain	network security and access security model in brief.	8
	b)	Explain	security services in brief.	5
			OR	
2.	a)	Explain	principles of security in detail.	8
	b)	Explain	any one transposition cipher.	5
3.	a)	What is	AES? Explain the algorithm in detail.	9
	b)	Describ	be key generation of AES algorithm.	5
			OR	
4.	a)	What is	s block cipher? Explain DES algorithm in detail.	10
	b)	Differen	ntiate between confusion & Diffusion terms in cryptography.	4
5.	a)		be Diffie-Hellman key exchange Algorithm with suitable example. What ess of the Algorithm Explain.	are the 8
	b)	What de	o you mean by man in middle Attack? Explain using Diffie-Hellman. Alg	gorithm. 5
			OR	
6.	a)		t "Hello World" using RSA Algorithm for the following data $= 3; q = 11; e = 7; m = 5$	8
	b)	Write n	ote on ECC.	5

7.	a)	Explain MD5 message Digest Algorithm in detail.		
	b)	Explain Hash Function.	7	
		OR		
8.		Explain Kerberos in detail. Also elaborate various steps of Kerberos version 4 in detail.	14	
9.	a)	Explain IP Sec protocol in detail. Also write applications & advantages of IP Sec.	7	
	b)	What are the services provided by SSL record protocol?	6	
		OR		
10.	a)	What do you mean by "Trusted Systems", "Intrusion Detection System" & " Intrusion Prevention System".	9	
	b)	Explain design principles of firewall.	4	
11.	a)	What do you mean by E-mail security? Explain pretty Good privacy.	7	
	b)	What do you mean by E-Transaction Attacks explain in detail.	6	
		OR HANDER		
12.	a)	Explain "Payment over Internet-issues & concerns" & "Secure electronic Transaction".	7	
	b)	What is software Vulnerabilities? Explain cross-site scripting in detail.	6	
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