B.E. Eighth Semester (Computer Technology) (C.B.S.)			
<b>Cyber &amp; Information Security</b>			

<b>P.</b> Pages : 2 Time : Three Hours	*0298*	KNT/KW/16/7597
Notes : 1. 2. 3. 4. 5. 6. 7. 8.	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.	
1. a) Explain the m	odel of Network security with access security model.	7
b) What are the	aspects of Information Security? Explain various active and passiv	e attacks. 7
	OR	
i) Using ceaso ii) Using trans Key → CL	position cipher (2-state)	9
b) Write a note on 1	need of information security in legal aspect.	5
3. a) Explain DES a	algorithm in detail.	8
b) Explain centra	lized Key Distribution Scenario.	5
	OR	
4. a) What are block	cipher modes of operation of DES ? Explain any two in detail.	6
b) Explain IDEA	algorithm in brief.	7
5. a) Differentiate c	onventional cryptography and public key cryptography tin	6

b) Describe Diffie-Hellman Key Exchange algorithm with "Man in the middle attack". OR	8		
<ul> <li>6. a) Describe RSA algorithm. If RSA has following parameters then calculate plaintext.</li> <li>C = 10</li> <li>{e, n} = {5, 35}</li> </ul>	10		
b) Write a short note on Elliptic curve cryptography.	4		
7. a) Explain in detail about X.509 directory authentication service.	8		
b) Differentiate Authentication and Digital Signature.	5		
OR			
8. a) Describe MDS in detail.	7		
b) What is message authentication ? And what are the requirements of message authentications.	6		
9. a) What is firewall ? What are its type? Explain in brief.	7		
b) What is intruder ? Explain intrusion detection techniques.	6		
OR			
10. a) Differentiate Host based versus N/W based IDS.	6		
b) What is firewall ? Characteristics of firewall and also write its goals.	7		
11. a) Explain chip-card transaction and attacks.	8		
b) Write a note on electronic cash.	5		
OR			
12. a) Write a brief note on SET (Secure Electronic Transaction)	10		
b) Write a short note on cross-site scripting.	3		

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