## B.E. (Computer Technology) Eighth Semester (C.B.S.)

## **Cyber & Information Security**

P. Pages: 2 Time: Three Hours			1811/1811/1811/1811/1811/181	<b>TKN/KS/16/7682</b> Max. Marks : 80	
	Note	s: 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)	Encrypt Pla	e different substitution encryption techniques. the following plaintext using playfair cipher: nintext → WILLIAMSTALLING. yword → CTECH	8	
	b)	Explain	different security services.	6	
			OR		
2.	a)	Explain	the model of network security and access security model.	7	
	b)	What ar	e the ethical and professional issues related to information security.	7	
3.	a)	-	international data encryption Algorithm in detail and list out all the encryption ryption subkeys in detail.	13	
			OR		
4.	a)	What ar	e the block cipher modes of operation explain them in brief.	9	
	b)	Explain	Decentralized key distribution scenario.	4	
5.	a)	Describ	e Euclid's Algorithm with example.	7	
	b)	Write a	note on Chinese Remainder Theorem.	6	
6.	a)	Write R	OR SA algorithm. Explain its implementation and security.	6	
	b)		c key system using RSA you intercept the ciphertext $C = 10$ sent to the user public key is $e = 5$ , $n = 35$ , what is the plaintext M?	7	
7.	a)	Explain	Authentication functions and Authentical requirements.	8	
	b)	Write a	note on Hash function.	5	
			OR		
8.		Explain	kerberos is detail.	13	
9.	a)	What is	firewall? What are its characteristics? List the design goals, for a firewall.	6	

www.solveout.in

	b)	What is intruder? Explain intrusion techniques.	5
	c)	List down any three recent highly spreading viruses.	3
		OR	
10.	a)	Explain different types of Firewalls.	6
	b)	Explain honeypot system of intrusion detection.	4
	c)	Explain the terms "Back door" and "Trogon horse".	4
11.	a)	Explain pretty good privacy in detail.  OR	13
12.		Write a brief note on.	
	a)	SET	5
	b)	Cross-site scripting.	4
	c)	Chip-card Transaction.	4

\*\*\*\*\*