С		Reg. No. :]	
		Question Pa	per	Co	de:	99 4	41]						
B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024														
Professional Elective														
Electronics and Communication Engineering														
		19UEC941- CY				-		-						
(Regulation 2019)														
Dur	ation: Three hours							Max	imu	m: 1	00 M	larks	5	
Answer ALL Questions														
		PART A - (5	x 1 =	= 5 N	/lark:	s)								
1.	PDU of Data Link La	PDU of Data Link Layer is known as								CO1 U				
	(a) Packets) Packets (b) Frames (c) Data						((d) Segments					
2.	Which of the following	ng tool is used in Wi-	-fi ha	ckin	g?							CO	D1 U	
	(a) Air cracking	(b) wire shark	((c) Norton					((d) None				
3.	An asymmetric-key c	cipher uses	numt	oer of	fkey	S.						CO	D1 U	
	(a) 1 Key	(b)2 Key	((c)3 Key					((d) 4 Key				
4.	Which of the following is defined as an attempt to harm, damage or CO1 U cause threat to a system or network?									D1 U				
	(a) Digital crime	(b) Threats	(c) System hijacking				((d) Cyber Attack					
5.	requires that personal data must be processed securely using CO1 U appropriate technical and organizational measures.													
	(a) FISMA	(b) SOX	(c) Gl	OPR				((d) H	[IPP]	A		
		PART – B (5	x 3=	= 15N	Лark	s)								
6.	Which layer in the Internet model is the user support layer?							CO1 U						
7.	Compare Passive & Active Attacks.							CO1 U						
8.	Prove that 3 is a primitive root of 7.								CO4 Ana					
9.	List the applications of Data Mining and Big data with example.							CO1 U						

10.	Des	cribe about the 4 key components of GDPR.	CO1 U			
11.	(a)	Discuss in detail about OSI model with neat sketch.	CO1 U	(16)		
	(b)	Or Describe in detail about various network topologies. List out its merits and demerits.	CO1 U	(16)		
12.	(a)	Apply the different types of OWASP algorithms to secure the information in network	CO2- App	(16)		
	(b)	Or Apply the different types of coding practices to secure the information in network	CO2- App	(16)		
13.	(a)	Encrypt and Decryptthe message "Sethu Institute of Technology" using poly alphabetic caeser cipher algorithm and analyze using alternate key shift. Or	CO4- Ana	(16)		
	(b)	Encrypt and Decryptthe message "Cyber Security And Management" using mono and poly alphabetic caeser cipher algorithm and analyze which algorithm can apply for larger data.	CO4- Ana	(16)		
14.	(a)	Apply the concept of DNT setting in the web browser to protect our privacy in online. Or	CO2- App	(16)		
	(b)	Apply the concept of PPDM to extract relevant information from the databases of Financial Banking.	CO2- App	(16)		
15.	(a)	How does my firewall management help with NIST Standards and the NIST Cyber security Framework? What NIST standards relate to firewall management? Or	CO4- Ana	(16)		
	(b)	Analyze the Federal Information Security Modernization Act (FISMA) requires government agencies to implement an information security program	CO4- Ana	(16)		