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Question Paper Code: U9907

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

Professional Elective

Electronics and Communication Engineering

		21UEC907 CYBER SE	ECURITY SYSTEMS							
		(Regulatio	ons 2021)							
Dur	ation: Three hours			Maximum: 100 Marks						
		Answer ALI	Questions							
	PART A - $(5 \times 1 = 5 \text{ Marks})$									
1.	. Which one of the following is the most common internet protocol?									
	(a) HTML	(b) NetBEUI	(c)TCP/IP	(d)IPX/SPX						
2.	Which of the follow	ving is not an email-relat	ed hacking tool?	CO1- U						
	a)Mail Password	b)Email Finder Pro	c)Mail Pass View	d) Sendinc						
3.	An algorithm in end	eryption is called		CO1- U						
	(a) Algorithm	(b) Procedure	(c) Cipher	(d) Module						
4.	Which of the follow using Tor?	ving online service's priv	racy cannot be protecte	d CO1- U						
	(a) Browsing data	(b)Instant messaging	(c) Login using ID	(d) Relay chats						
5.	What does cyber see	curity protect?		CO1- U						
	(a) Cyber security protects criminals									
	(b) Cyber security protects internet-connected systems(c) Cyber security protects hackers									
	(d) none of the above	/e								
	(a) Cyber security p	rotects criminals								
		PART – B (5 x	3= 15 Marks)							
6.	How does informati model?	ion get passed from one	layer to the next in the	Internet CO1-U						
7	What do you unders	stand by compliance in C	Cyber security?	CO1-U						

8.	Prov	ye that 3 is a primitive root of 7.	CC	4-Ana
9.	Wh	y Email security is important in cyberspace?	(CO1-U
10.	Stat	e six objectives of PCIDSS.	CO1-U	
		PART – C (5 x 16= 80 Marks)		
11.	(a)	Explain the various network topologies. List out its merits and demerits.	CO1-U	(16)
		Or		
	(b)	Describe about open system interconnection model with diagram.	CO1-U	(16)
12.	(a)	Explain the types of attacks in cyber security. Or	CO2-App	(16)
	(b)	Apply the different types of OWASP algorithms to secure the information in network.	CO2-App	(16)
13.	(a)	Encrypt and Decrypt the message "Cyber Security And Privacy" using mono and poly alphabetic caeser cipher algorithm and analyze using K=7 and K=15 shift. Or	CO3-App	(16)
	(b)	Encrypt and Decrypt the message "ECE DEPARTMENT" using poly alphabetic caeser cipher algorithm and analyze using K=8 and K=20 shift.	CO3-App	(16)
14.	(a)	Illustrate the nine important elements to cover a data in security policies	CO1-U	(16)
		Or		
	(b)	Discuss the benefits of Email security for Enterprises.	CO1-U	(16)
15.	(a)	Analyze how we can find the PCI Data Security Standard (PCI DSS) used in different levels?	CO6- Ana	(16)
	(1.)	Or		(1.6)
	(b)	Analyze an information security standard developed to enhance cardholder data security for organizations that store, process or transmit credit card data.	CU6- Ana	(16)