	7E2					NERGY STUDIES 1ber 2021	
Course					, 2000	Course Code: CSCS70	06P
	m : MCA					Semester : I	
Time	: 03 hrs.					Max. Marks : 100	
		SEC	TION	JA			
		(Scan a				(5Qx 4M = 20 Marks))
S. No.	Question	-					CO
Q 1	Write a short note on CIA Triad.						CO
Q 2	Explain the concept of digital sign	nature. H	ow it is	differ	ent from o	ligital certificate.	CO2
Q 3	Discuss the concept of Server Har	dening a	nd Net	work H	Iardening	•	CO
Q 4	Differentiate between the Symmet	tric and A	Asymm	etric K	Ley crypto	ography.	CO ₄
Q 5	How can be Intrusion Detection sy with its categories.	vstem is t	he back	cbone o	of Informa	tion system? Justify along	COS
		(Scan a		oad)		(4Qx10M = 40 Marks)
Q 6	a) Mention various types of phishing attacks and their impact.						CO
	b) Discuss the anti-virus and anti-	malware	scanni	ng and	analysis	tools.	
Q 7							CO
Q 8	Elaborate Physical and Environmental Security. Mention step to protect a Cybersecurity Domain.					CO	
Q 9	Define cryptography. Discuss any Discuss Public key infrastructure Infrastructure (PKI) work?	-	OR			-	CO
		SEC (Scan a	TION and uple			(2Qx 20M= 40 Marks	s)
Q 10	Solve the following Crypt arithm	netic pro	oblems	•			
		\mathbf{F}	0	U	R		
	+	\mathbf{F}	Ι	\mathbf{V}	Ε		
		Ν	Ι	Ν	Ε		
			OR				
	 (a) The Caesar cipher shifts all the letters in a piece of text by a certain number of places. The key for this cipher is a letter, which represents the number of place for the shift. For example, a key E means "Right shift 5 places" and key M means "Right shift 13 places". i. What does "CRYPTOGRAPHY" become with a shift of L? ii. What key do we need to make "CAESAR" become "RPTHPG"? 						
	(b) Crack the following plaintext OAZH HLEOLEXL ZH LEXKMVOLJ. JLXKMVO OAZH. Mention the encryption key used in this case.						

Q 11	Mention the compromised hosts, Vulnerabilities and suggest possible security measures in following case:					
	Bureau of Police Research and Development at Hyderabad had handled some of the top cyber cases, including analyzing and retrieving information from the laptop recovered from terrorist, who attacked Parliament. The laptop which was seized from the two terrorists, who were gunned down when Parliament was under siege on December 13 2001, was sent to Computer Forensics Division of BPRD after computer experts at Delhi failed to trace much out of its contents. The laptop contained several evidences that confirmed of the two terrorists' motives,					
	namely the sticker of the Ministry of Home that they had made on the laptop and pasted on their ambassador car to gain entry into Parliament House and the fake ID card that one of the two terrorists was carrying with a Government of India emblem and seal.					
	The emblems (of the three lions) were carefully scanned and the seal was crafty made along with residential address of Jammu and Kashmir. However, careful detection proved that it was all forged and made on the laptop.					