Printed Pa	ge:-	Subject Code:- ANC0401		
		Roll. No:		
	NOIDA INSTITUTE OF EN		IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
	(An Autonom	ous Institute Affiliated to AKTU, Lucknow)		
		B.Tech		
	SEM: IV - CARRY OV	ER THEORY EXAMINATION - SEPTEMBE	R 2022	
		Subject: Cyber Security		
Time: 2	Hours		Max. Marks: 50	
General In	structions:			
1. The que	stion paper comprises three s	ections, A, B, and C. You are expected to answer	er them as directed.	
2. Section	A - Question No- 1 is 1 mark	er & Question No- 2 carries 2 mark each.		
3. Section	B - Question No-3 is based or	n external choice carrying 5 marks each.		
4. Section	C - Questions No. 4-8 are with	thin unit choice questions carrying 4 marks each	1.	
5. No shee	t should be left blank. Any w	ritten material after a blank sheet will not be eva	aluated/checked.	
		SECTION A	15	
1. Attempt	all parts:-			
1-a.	CIA Triad refers to -	(CO1)	1	
	(a) confidentiality			
	(b) Integrity			
	(c) Availability			
	(d) All			
1-b.	Which one of the following	is a type of antivirus program?	(CO2) 1	
	(a) Quick heal			
	(b) Mcafee			
	(c) Kaspersky			
	(d) all			
1-c.	Which of the following is an	issue faced by data storage devices?	(CO3) 1	
	(a) Excessive data mo	ounting		
	(b) Theft,destruction	and damage		
	(c) Too small size			
	(d) All of the above			
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1-d.	URL stands for – (CO4)	1			
	(a) Universal Remote Locator				
	(b) Universal Resource Language				
	(c) Uniform Resource Locator				
	(d) Uniform Resource Language				
1-e.	Taking control of another's website (CO5)	1			
	(a) Hijacking				
	(b) spamming				
	(c) spoofing				
	(d) none of above				
2. Attempt	t all parts:-				
2.a.	Differentiate between Data and Information. (CO1)	2			
2.b.	Explain the term phishing? (CO2)	2			
2.c.	Discuss the advantages of data backup security? (CO3)	2			
2.d.	What do you mean by masquerading? Explain with an example. (CO4)	2			
2.e.	Which property is considered as tangible property? (CO5)	2			
	SECTION B 15				
3. Answer any three of the following:-					
3-a.	How are vulnerability, threats and risk related? Is risk assessment important? (CO1)	5			
3-b.	What are the advantages and disadvantages of E-commerce? (CO2)	5			
3.c.	What do you mean by Application Security? Explain the protocols that can be used for Email Security. (CO3)				
3.d.	Differentiate between Cyber security and Information security. (CO4)	5			
3.e.	What is cloud computing? Explain the different cloud computing deployment models in detail. (CO5)	5			
	SECTION C 20				
4. Answer	any one of the following:-				
4-a.	Discuss passive attacks in network with example. (CO1)	4			
4-b.	Explain the phases that can be involved if a software is to be developed for car manufacturer				

5. Answer any one of the following:-5-a. Explain all the categories of Access control system in detail. (CO2) 4 5-b. What do you mean by Intrusion Detection System? Differentiate between NIDS and 4 HIDS? (CO2) 6. Answer any one of the following:-6-a. Discuss the framework for developing secure applications. (CO3) 4 Explain the Ring model and Open Closed systems in detail. 6-b. (CO3) 4 7. Answer any one of the following:-7-a. What do you mean by Virtual Private Network? Discuss authentication mechanism used in 4 VPN? (CO4) 7-b. What do you mean by Symmetric Encryption scheme? Differentiate DES and 4 (CO4) AES. 8. Answer any one of the following:-What is 8-a. IoT? Take an example to discuss how has it changed 4 lifestyle. (CO5) 8-b. Discuss examples of security policies in case of a bank. (CO5) 4

using waterfall model.

(CO1)