Printed F	Page:- 03 Subje	ect Code:- ANC0401			
	Roll.	No:			
I	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA				
(An Autonomous Institute Affiliated to AKTU, Lucknow)					
	B.Tech				
SEM: IV - THEORY EXAMINATION (2023- 2024)					
	Subject: Cyber Sec	•			
	2 Hours	Max. Marks: 50			
	I Instructions:	th the correct course code branch etc			
-	rify that you have received the question paper wit Question paper comprises of three Sections -				
	ns (MCQ's) & Subjective type questions.	A, B, & C. It consists of multiple choice			
	num marks for each question are indicated on rig	aht -hand side of each auestion.			
3. Illustrate your answers with neat sketches wherever necessary.					
	ne suitable data if necessary.				
5. Prefera	rably, write the answers in sequential order.				
6. No she	heet should be left blank. Any written ma	terial after a blank sheet will not be			
evaluated	ed/checked.				
	SECTION A	15			
1. Attem	npt all parts:-				
1-a.	In CIA Triad, A refers to -	(CO1) 1			
	(a) Authentication				
	(b) Authorization				
	(c) Access Control				
	(d) Availability				
1-b.	Label the process of setting up of fake a	ccess points in high traffic public 1			
	locations				
	(a) Unsecured Wi-Fi				
	(b) Phishing Attacks				
	(c) Network Spoofing Spyware				
	(d) none				
1-c.	Data backup security can be implemented by	y (CO3) 1			
	(a) Assigning,Accountability and respo	nsibilities to the managers			
	(b) forcing the responsibilities on appl	_			
	(1, 1 1 9 11 11 11 11 11 11 11 11 11 11 11	1			

	(c) applying firewalls	
	(d) All of the above	
1-d.	In RSA, $\Phi(n) = \underline{\hspace{1cm}}$ in terms of p and q. (CO4)	1
	(a) (p)/(q)	
	(b) (p)(q)	
	(c) (p-1)(q-1)	
	(d) (p+1)(q+1)	
1-e.	Name the term that gives a description of the lawful issues related to the use of communication or computer technology.	1
	(a) Cyber Audit	
	(b) Law Enforcement	
	(c) Evidence records	
	(d) Cyber Law	
2. Atten	npt all parts:-	
2.a.	Explain term Threat.	2
2.b.	Give 2 challenges for Application Layer security	2
2.c.	State any two security concerns in PDA?	2
2.d.	What do you mean by masquerading? Explain with an example.	2
	(CO4)	
2.e.	What is OpenStack ?	2
	SECTION B	15
3. Answ	er any <u>three</u> of the following:-	
3-a.	Why are feasibility study and requirement gathering important in any software development model.	5
3-b.	Explain all types of Firewall in detail.	5
3.c.	Discuss Intrusion detection system and its types. What are components of intrusion detection system? IDS and CCTV play an important role in providing	5
J 4	physical security to our information system. Discuss how?	_
3.d.	What is digital signature? What are the requirements of digital signature system? List the security services provided by Digital Signature.	5
3.e.	Explain the need for Information Security Policies. How to protect email messages?	5
	SECTION C	20

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Discuss active attacks in network with suitable example. (CO1)	4
Discuss all the phases involved in spiral model.	4
er any <u>one</u> of the following:-	
How will you differentiate between NIDS and HIDS? How Intrusion detection system is different from Intrusion Prevention System? (CO2)	4
What is VPN and how does it provide security? (CO2)	4
er any <u>one</u> of the following:-	
"Primary threats on the physical security is physical exposure to human beings". Comment on the statement. (CO3)	4
Define the term mobile security in detail? (CO3)	4
er any <u>one</u> of the following:-	
Explain various key aspects in maintaining cloud security. (CO4)	4
Explain importance of Hash functions? (CO4)	4
er any <u>one</u> of the following:-	
What is cloud computing? Discuss all cloud deployment models.	4
Explain the term IoT. Take an example to discuss how has it changed current lifestyle.	4
	Discuss all the phases involved in spiral model. er any one of the following:- How will you differentiate between NIDS and HIDS? How Intrusion detection system is different from Intrusion Prevention System? (CO2) What is VPN and how does it provide security? (CO2) er any one of the following:- "Primary threats on the physical security is physical exposure to human beings". Comment on the statement. (CO3) Define the term mobile security in detail? (CO3) er any one of the following:- Explain various key aspects in maintaining cloud security. (CO4) Explain importance of Hash functions? (CO4) er any one of the following:- What is cloud computing? Discuss all cloud deployment models. Explain the term IoT. Take an example to discuss how has it changed current lifestyle.