Printed Pa	•	Subject Code:- ANC0401 Roll. No:
	NOIDA INSTITUTE OF ENGINEERING A (An Autonomous Institute Aff	liated to AKTU, Lucknow)
	SEM: IV - THEORY EXAM	
	Subject: Cybe	
Time: 3	Hours	Max. Marks: 50
2. Section3. Section4. Section	estion paper comprises three sections, A, B, and A - Question No- 1 is 1 marker & Question No- B - Question No-3 is based on external choice C - Questions No. 4-8 are within unit choice q	carrying 5 marks each.
	SECTION A	A 15
1. Attempt	all parts:-	
1-a.	Which of the following is a cyber attack? (CC	01)
	(a) Phishing	
	(b) release of content	
	(c) both	
1.1.	(d) availability	1
1-b.	Firewall types are - (CO2)	1
	(a) Packet filtering(b) Application Gateway	
	(c) Circuit level Gateway	
	(d) all	
1-c.	Data backup security can be implemented by	(CO3) 1
	(a) Assigning, Accountability and resp	onsibilities to the managers
	(b) forcing the responsibilities on appl	ication developers
	(c) applying firewalls	
	(d) All of the above	
1-d.	A digital signature is a mathematical technique	the which validates? (CO4)
	(a) authenticity	
	(b) integrity	
	(c) Non-repudiation(d) All of the above	
1-e.	What is meant by novelty? (CO5)	1
1-0.	(a) old	1
	(b) new	
	(c) not useful	
	(d) none	
2. Attempt	all parts:-	
2.a.	List importance of Risk management. (CO1)	2
2.b.	What is asymmetric key cryptography? (CO2	2
2.c.	What is Biometric security? (CO3)	2
2.d.	What is the purpose of the S-boxes in DES? (CO4) 2
2.e.	What is the need of cyber law in India? (COS	5)

SECTION B 15

4

3. Answe	er any three of the following:-	
3-a.	When you use internet, what are possible ways to protect yourself? (CO1)	5
3-b.	You are an employee in a company and your company has a firewall, what all precautions would be needed at your end that company is not taking care of ? (CO2)	
3.c.	Discuss the physical security of IT Assets? Explain mechanism to attain physical security (CO3)	
3.d.	Explain DES in detail with its encryption and decryption process. (CO4)	
3.e.	What is cloud architecture? How is cloud different from traditional data centers? What are the risks in cloud security? (CO5)	5
	SECTION C 20	
4. Answe	er any one of the following:-	
4-a.	Discuss Prototype model in detail. (CO1)	4
4-b.	Discuss active attacks in network with suitable example. (CO1)	4
5. Answe	er any <u>one</u> of the following:-	
5-a.	Differentiate between Virus and worms. (CO2)	4
5-b.	What is VPN and how does it provide security? (CO2)	4
6. Answe	er any <u>one</u> of the following:-	
6-a.	Differentiate between Network intrusion detection system and Host intrusion detection system. (CO3)	4
6-b.	"Primary threats on the physical security is physical exposure to human beings". Comment on the statement. (CO3)	4
7. Answe	er any <u>one</u> of the following:-	
7-a.	Explain various key aspects in maintaining cloud security. (CO4)	4
7-b.	Illustrate the mechanism used in securing mail system against spam. (CO4)	4
8. Answe	er any one of the following:-	
8-a.	Explain the term Cybercrime. Discuss 3 examples in detail. (CO5)	4

Discuss sample of security policies for a pharma company. (CO5)

8-b.