NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech.

SEM: III - THEORY EXAMINATION (2021 - 2022)

Subject: Cyber Security

Time: 03:00 Hours   Max. Marks: 50

General Instructions:

1. All questions are compulsory. It comprises of three Sections A, B and C.

- Section A - Question No- 1 is objective type question carrying 1 mark each & Question No- 2 is very short type questions carrying 2 marks each.
- Section B - Question No- 3 is Long answer type - I questions carrying 5 marks each.
- Section C - Question No- 4 to 8 are Long answer type - II questions carrying 4 marks each.
- No sheet should be left blank. Any written material after a Blank sheet will not be evaluated/checked.

	SECTION A	15

1. Attempt all parts:-

1.a.	Which of the following is not a type of information system? (CO1)	1

1. Operations support systems
2. Knowledge-based systems
3. Employment systems
4. Management support systems

1.b.	Electronic cash is _____ . (CO2)	1

1. e-cash
2. electrical cash
3. all
4. none

1.c.	Which of the following is an issue faced by data storage devices? (CO3)	1

1. Excessive data mounting
2. Theft,destruction and damage
3. Too small size
4. All of the above

1.d.	Public-key cryptography is also known as _____ ? (CO4)	1

1. asymmetric cryptography
2. symmetric cryptography
3. Both
4. None

1.e.	This indicates one type of Intellectual Property _____ . (CO5)	1

1. Copyright
2. Government property
3. Personal privacy
4. All the above

2. Attempt all parts:-

2.a.	Define Information system. (CO1)	2
2.b.	Define macro viruses. (CO2)	2
2.c.	What is the role of CCTV in security of information? (CO3)	2
2.d.	Explain Digital Signature in brief. (CO4)	2
2.e.	Explain WWW Policies in brief. (CO5)	2

<div align="center">SECTION B   15</div>

3. Answer any <u>three</u> of the following:-

3.a.	What is Cyber Security and How it is different from Information Security? (CO1)	5
3.b.	What are advantages and disadvantages of E-commerce? (CO2)	5
3.c.	What are the various security measures taken for data backup? (CO3)	5
3.d.	Differentiate between data encryption standard (DES) and advanced encryption standard (AES). (CO4)	5
3.e.	Explain in what situation semiconductor law comes in consideration and how it differs from patent law? (CO5)	5

<div align="center">SECTION C   20</div>

4. Answer any <u>one</u> of the following:-

4-a.	Differentiate between Information Assurance and Information Security. (CO1)	4
4-b.	Explain any two types of Information Systems in details. (CO1)	4

5. Answer any <u>one</u> of the following:-

5-a.	What are the components of Intrusion Detection System. (CO2)	4
5-b.	Differences between Virus , worms and Trojan horse. (CO2)	4

6. Answer any <u>one</u> of the following:-

6-a.	Explain security issues with downloadable devices. (CO3)	4
6-b.	Discuss the security considerations at the disposal phase. (CO3)	4

7. Answer any <u>one</u> of the following:-

7-a.	What is the difference between a private key and a public key? (CO4)	4
7-b.	Describe hashing function. What are the security vulnerabilities of hashing functions? (CO4)	4

8. Answer any <u>one</u> of the following:-

8-a.	Write down about the following : (CO5) (a) Email based Policies (b) Corporate Policies	4
8-b.	Define the terms Trade marks, Trade secret, Moral rights & Franchise. (CO5)	4