NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute Affiliated to AKTU, Lucknow)
B.Tech
SEM: III - CARRY OVER THEORY EXAMINATION - JUNE (2021 - 2022)
Subject: Cyber Security

Time: 3 Hours   Max. Marks: 50

General Instructions:
1. The question paper comprises three sections, A, B, and C. You are expected to answer them as directed.
2. Section A - Question No- 1 is 1 marker & Question No- 2 carries 2 mark each.
3. Section B - Question No-3 is based on external choice carrying 5 marks each.
4. Section C - Questions No. 4-8 are within unit choice questions carrying 4 marks each.
5. 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 attack on the network? (CO1)   1
         (a) Active attack
         (b) Passive attack
         (c) Neutral Attack
         (d) none

1-b.   Which of the following are data security consideration? (CO2)   1
         (a) Backups
         (b) Archival Storage
         (c) Disposal of Data
         (d) All

1-c.   CCTV is _____ . (CO3)   1

         (a) closed circuit television
         (b) crime detection software
         (c) communication software
         (d) all

1-d.   Examples of hash functions are _____ . (CO4)   1
         (a) MD5
         (b) SHA-1
         (c) Both MD5 and SHA-1
         (d) None

1-e.   This indicates one type of Intellectual Property _____ . (CO5)   1
         (a) Copyright
         (b) Government property
         (c) Personal privacy
         (d) All the above

2. Attempt all parts:-

2.a.   Define Information system. (CO1)   2
2.b.   Define Trojan horse. (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.	Explain in detail about Information Assurance and Information Security. (CO1)	5
3-b.	What are the threats to E-commerce. (CO2)	5
3.c.	What are the Security Issues related to Hardware, Data Storage and Downloadable Devices? Discuss? (CO3)	5
3.d.	Differentiate between data encryption standard (DES) and advanced encryption standard (AES). (CO4)	5
3.e.	Explain Evolution of Cyber Law in India. (CO5)	5

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

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

4-a.	Explain Waterfall model in detail. (CO1)	4
4-b.	What is need of Risk management? (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.	Explain Electronic Payment System in detail. (CO2)	4

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

6-a.	"Intrusion Detection System and Closed Circuit Televisions plays an important role in providing physical security to our information system." Justify this Statement. (CO3)	4
6-b.	How can we maintain and secure the Backup of our data? (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.	Explain IT act 2000. (CO5)	4
8-b.	Write down about the following : (CO5) (a) Email based Policies (b) Corporate Policies	4