NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: III - CARRY OVER THEORY EXAMINATION - APRIL 2023

Subject: Cyber Security

Time: 2 Hours   **Max. Marks: 50**

General Instructions:

IMP: *Verify that you have received the question paper with the correct course, code, branch etc.*

1. *This Question paper comprises of **three Sections -A, B, & C.** It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.*

2. *Maximum marks for each question are indicated on right -hand side of each question.*

3. *Illustrate your answers with neat sketches wherever necessary.*

4. *Assume suitable data if necessary.*

5. *Preferably, write the answers in sequential order.*

6. *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.   Active attack is/are : [CO1]   1

(a) Masquerade

(b) Replay

(c) Denial of service

(d) all

1-b.   Which is not a type of information system. [CO2]   1

(a)
Transaction Processing System

(b)
Transaction Progress System.

(c) Decision Support Systems

(d) Expert System

1-c.   Best code implementation methods that are tested included in [CO3]   1

(a) Principles

(b) Design guidelines

(c) Framing

(d) Assessing

1-d.   Advanced encryption standard (AES) is an encryption technique of- [CO4]   1

(a) Systematic

(b) Symmetric

(c) Asymmetric

(d) None

1-e.   Recognize which of the following is excluded from an intellectual property law.   1
[CO5]

(a) Income Tax Act, 1962

(b) Trademark Act, 1999

(c) Patent Act, 1970

(d) Copyright Act, 1957

2. Attempt all parts:-

2.a.   Differentiate between data and Information. [CO1]   2

2.b.   Explain access control in cyber security. [CO2]   2

2.c.   What do you mean by downloadable device ? [CO3]   2

2.d.   Define non repudiation. [CO4]   2

2.e.   Why Cyber Laws need to be implemented? [CO5]   2

SECTION B   **15**

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

3-a.   State guidelines for Securing a password. [CO1]   5

3-b.   Discuss with a case study, how would you protect information transfer between   5
two offices located within a country. [CO2]

3.c.   Draw component diagram of CCTV. [CO3]   5

3.d.   Elaborate how does SSL provide security on web? Explain in detail. [CO4]   5

3.e.   Give some examples of security policies. Explain any one in detail. [CO5]   5

SECTION C   **20**

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

4-a.   What do you mean by Security Risk Analysis. Explain in detail. [CO1]   4

4-b.   Explain steps involve in development of Information Systems. CO[1]   4

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

5-a.   Differentiate between Identification and Authentication. discuss with example.   4
        [CO2]

5-b.   Discuss issues with credit card and credit card payment system. [CO2]   4

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

6-a.   Draw components of IDS. [CO3]   4

6-b.   Explain the key elements required for managing the security of organization.   4
        [CO3]

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

7-a.   How VPN protects the information. Explain with example. [CO4]   4

7-b.   Explain DNS Security. [CO4]   4

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

8-a.   Explain need of Information System also explain the term ISMS. [CO5]   4

8-b.   Explain the need of cyber laws in INDIA. Also explain data disposal in brief.   4
        [CO5]