

2023

Time : 3 hours

Full Marks : 70

*Candidates are required to give their answers in
their own words as far as practicable.*

The figures in the margin indicate full marks.

Answer from all the Sections as directed.

Section – A

(Objective Type Questions)

1. Choose the correct answer of the following :

$1 \times 5 = 5$

(a) Which of the following networking device is

called as protocol converter ?

(i) Repeater

~~(ii) Gateway~~

(iii) Firewall

(iv) Switch

(b) DES means :

(i) Data Encoding Scheme

(ii) Data Encryption Standard

(iii) Digital Encryption Standard

(iv) None of these

(c) A(n) _____ algorithm transform cipher text
to plain text.

(i) Encryption

(ii) Decryption

(iii) Either (i) or (ii)

(iv) None of these

(d) Which is not an objective of network security ?

(i) Identification

(ii) Authentication

(iii) Access Control

(iv) Lock

(e) Which of these is a part of Network Identification ?

(i) User ID

(ii) Password

(iii) OTP

(iv) Finger print

2. Fill in the blanks of the following : $1 \times 5 = 5$

- (a) The Information that gets transferred in encryption is _____.
- (b) Information security threats can be _____.
- (c) Fire is an example of a _____ Information Security Threats.
- (d) Digital signature is a _____.
- (e) _____ is the concept of sharing resources services and application.

Section – B

(Short-answer Type Questions)

3. Answer any four questions of the following
(Answer to be not more than 200 words) :

$$5 \times 4 = 20$$

- (a) What are the types of computer criminals ?
- (b) What are major application of cryptography in Modern World ?
- (c) What are the five types of security ?
- (d) What is main objective of cyber security ?
- (e) What is data base security profile ?
- (f) Explain the Administrative Security.

Section – C

(Long-answer Type Questions)

4. Answer any four questions of the following :

$$10 \times 4 = 40$$

(a) What is decryption ? What is its need ?

~~(b)~~ Explain the database security and its types.

(c) What are benefits of firewall ?

~~(d)~~ What are the top five information security challenges ?

(e) Describe the Security Architecture in Information Security.

~~(f)~~ Explain the following :

~~(i)~~ Multi level security

~~(ii)~~ Hash function

~~(iii)~~ Salami Attack

~~(iv)~~ File Protection