2021-24

Full Marks: 60

Time: 3 Hours

Candidates are required to give their answer in their own words as far as practicable. Their figures in the margin indicate full marks.

Answer from both the Sections as directed.

Section - A/(Compulsory)

- Select the most appropriate option of the following statement: 1×10=10
 - (i) Which of the following is an objective of network security:
 - (a) Confidentiality (b) Integrity
 - (c) Availability (d) All of the above
 - (ii) Identify the term which denotes that only authorized users are capable of accessing the information :
 - (a) Confidentiality (b) Integrity
 - (c) Availability (d) All of above

complexity of the access control function. security: (b) False (a) Flood (a) True (viii) Salami attacks is a type of attack that (b) Without deleting data, disposal of operates on: storage media (a) Confidential data (c) Unchanged default password (b) Company Data (d) Latest patches and updates not done (c) Financial Data (iv) Possible threat to any information cannot (d) Employee Data be: (ix) In cryptography, what is cipher: (a) Reduced (b) Transferred (a) Algorithm for performing encryption (c) Protected (d)/Ignored and decryption. A firewall protects which of the following (b) Encrypted message. áttacks? (c) Both algorithm for performing (a) Phishing encryption and decryption and encrypted message. (b) Dumpster diving (d) Decrypted message. (c) Denial of Service (DoS)

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(vi) What is used for database security?

(d) Shoulder surfing

(b) Data Encryption

(d) All of the above

(c) Finger print

(a) A view

(iii) From the options below, which of them

is not a vulnerability to information

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What is firewall? What is the usage of it?

The legal risks of ethical hacking include

(b) Disclosure

(d) Hacking

lawsuits due to of personal data:

(a) Stealing

(c) Deleting

(vii) The addition of multilevel security to a

database system does not increase the

P.T.O.

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Section - B

Answer any three questions:

15×3=45

- 3. (i) What is the difference between encryption and hashing?
 - (ii) What is the difference between symmetric and asymmetric encryption.
- 4. (i) What are the security services of Information security?
 - (ii) What is attack in information security?
 What are the types of attacks?
- 5. (i) What is database security? Explain requirements of database security.
 - (ii) Explain the term reliability and Integrity in database security with example.
- 6. (i) What is trap door and salami attack? Explain with example.
 - (ii) Explain ethical issues in Information security.
- 7. Write short notes on (any two): $7.5 \times 2 = 15$
 - (i) Intrusion Detection System.
 - (ii) Digital Signature.
 - (iii) File Protection.

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