22620

24225

3 Hours / 70 Marks Seat No. | | | | | | | | |

Instructions : (1) All Questions are *compulsory.*

(2) Illustrate your answers with neat sketches wherever necessary.

(3) Figures to the right indicate full marks.

(4) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following : **10**

(a) Define Virus.

(b) What is Shoulder Surfing ?

(c) Define Plain Text and Cipher Text.

(d) State the meaning of Hacking.

(e) State the types of Attacks.

(f) State any two needs of firewall.

(g) Define the term cyber crime.

2. Attempt any THREE of the following : **12**

(a) Define Risk. Describe Quantitative and Qualitative risk analysis.

(b) Explain Fingerprint in Biometric and its limitations.

(c) Differentiate between symmetric and asymmetric Cryptography.

(d) What is steganography ? List terminologies used in steganography.

3. Attempt any THREE of the following : **12**

(a) Define the following term :

(1) Authentication

(2) Authorization

(b) Consider plain text "COMPUTER" and convert given plain text into cipher text using 'Caesar Cipher' with shift of position four.

(c) Explain Honey pots with diagram.

(d) Describe dumpster diving with its prevention mechanism.

4. Attempt any THREE of the following : **12**

(a) Describe the working of Digital signature with neat diagram.

(b) Explain Packet filter router firewall with neat diagram.

(c) Describe DMZ with suitable diagram.

(d) Explain the Kerberos with suitable diagram.

(e) Convert plain text into cipher text by using simple columnar technique of the following sentence :

Plain text : "WELCOME TO EXAMINATION"

Number of column : 06

Encryption key : 461253

5. Attempt any TWO of the following : **12**

(a) Explain criteria for classification of information.

(b) Describe with suitable diagram Intrusion detection system.

(c) Describe COBIT framework with neat diagram.

6. Attempt any TWO of the following : **12**

(a) Explain the terms :

(1) Back doors & Trap doors

(2) Sniffing

(3) Spoofing

(b) Explain IP security with the help of diagram.

(c) Explain the Firewall policies, configuration and limitations in detail.
