

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:**
- 1. All question are compulsory.**
 - 2. Figures to the right indicate full marks.**

Q.1 Attempt any Three of the following:

15

- What is computer security? list the types of computer security explain network security in detail?
- What are the principles of security?
- What is attack? Write any two cyber attack in detail?
- What is active attack and passive attack? Write any three examples of cyber attack?
- Explain the fence?
- Explain the tagged architecture?

Q.2 Attempt any Three of the following:

15

- Define network security? Write down the different types of network layer attacks?
- Explain the demilitarized zone (DMZ)?
- Explain the signature based and heuristic based intrusion detection systems?
- Define web server security? Explain Handshake protocol and alert protocol?
- Explain the public key infrastructure?
- Describe the kerberos?

Q.3 Attempt any Three of the following:

15

- Define the secure socket layer? Explain the SSL record protocol and Change-cipher spec protocol?
- Define the SECURE ELECTRONIC TRANSACTION with requirements in SET, Participants in SET and SET functionalities.
- Briefly describe the dual signature?
- List the algorithm for user authentication in cloud? Explain the RSA algorithm and OTP password algorithm?
- What are the Virtualization System Security Issues?
- Explain the ESX and ESXi Security?

Q.4 Attempt any Three of the following:

15

- With the help of diagram explain the Mobile System Architecture?
- Explain the GSM security and UMTS security?
- What are the 12 security indicators in Cellular VoIP Services?
- Explain the wireless network with its type?
- Explain the Pin Attacks and BTCrack?
- Briefly describe the BLUETOOTH EAVESDROPPING?

Q.5 Attempt any Three of the following:

15

- a. How Access Control List(ACL) work? Explain the type of access Control list?
- b. Explain the type of COMPUTER CRIMINALS?
- c. Explain the Software-as-a-Service (SaaS)?
- d. Explain the Discretionary Access Control (DAC) and Mandatory Access Control (MAC)
- e. Explain the following attack
 - i) SIM-based attacks
 - ii) SMS attacks
 - iii) Cryptography attack
 - iv) Signaling attacks
- f. What is ZIGBEE SECURITY & ATTACKS?

*******END*******