

Q.P. Code:02180

[Time: 3 Hours] [ Marks:100]

Please check whether you have got the right question paper.

- 1. Question No. 1 is Compulsory.
- 2. Attempt any four from the remaining six questions.
- 3. Assume a suitable data whenever required, clearly state the assumptions.

| Q.1  | a)Explain in detail the DES algorithm and a DES Round.   | 10 |
|------|--|----|
|      | b)Explain SSL Architecture.  | 10 |
| Q.2  | a)What is hash function? How is MAC different from HMAC?   | 10 |
|      | b)Explain the different categories of Passive and Active Security Attacks?   | 10 |
| Q.3  | a)Discuss the various pitfalls in security handshake or authentication.  | 10 |
|      | b)Discuss E-mail Security in detail.   | 10 |
| Q.4  | a)What is Firewall? Explain different configurations of Firewalls.   | 10 |
|      | b)What is security policy? Explain different security policies.  | 10 |
| Q.5  | a)Explain Diffie – Hellman key distribution algorithm with example. And list the disadvantages of Diffie-Hellman key distribution algorithm? | 10 |
|      | b)Explain in detail PGP.   | 10 |
| Q.6  | a)What is Public-Key Cryptography? Explain RSA asymmetric key cryptographic algorithm with suitable example?                                 | 10 |
|      | b)What is a digital Signature ? Explain El-Gamal Signature?  | 10 |
| Q.7  | Write short note on any four:  | 20 |
|      | a)Kerberos V5  |    |
|      | b)Reflection Attack  |    |
|      | c)Triple DES   |    |
|      | d)ECB and CBC  |    |
|      | e) Stream Cipher and Block Cipher.   |    |
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