(2 ½ Hours) [Total Marks: 60

N.B: (1) **All questions are compulsory.**
(2) Figures to the **right** indicate full marks.
(3) **Assume additional data if necessary** but state the same clearly.
(4) Use of **calculators** and statistical tables are **allowed.**

Q.1 Attempt **any two** of the following (12)
(a) Write a note on Password Stealing and Social Engineering. 6
(b) Write a note on good and secure encryption algorithm. 6
(c) What is the significance of hash function in message authentication? Explain. 6
(d) What is meant by Cipher? Describe Stream and Block Ciphers. 6

Q.2 Attempt **any two** of the following (12)
(a) What is a Firewall? What are its limitations? 6
(b) Write a note on NTP and its significance in securing network. 6
(c) What are misconfigured servers? Explain it with reference to DNS security. 6
(d) Write a note on dynamic packet filters. 6

Q.3 Attempt **any two** of the following (12)
(a) Write a note on data corruption and data theft. 6
(b) Briefly describe about FTP and SMTP. 6
(c) What are the goal for Intrusion Detection Systems? What are the limitations of Intrusion Detection Systems 6
(d) What is website defacement? What are its reasons? 6

Q.4 Attempt **any two** of the following (12)
(a) Write a note on IPSec Protocol and IPSec Key Management. 6
(b) Explain about the Handshake Protocol. 6
(c) Write a note on Security Association and Authentication Header. 6
(d) What is PEM? Explain its working. 6

Q.5 Attempt **any two** of the following (12)
(a) Explain in detail implementing information security using AES standard. 6
(b) What is information leakage? List various reasons for it. 6
(c) What is a Distributed Firewall? What are its advantages and disadvantages? 6
(d) Write a note on Security for E-mails. 6

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