1 (a) Do as directed : 5
   (i) What does the mean of Computer Security ?
   (ii) What do you mean by Vulnerability ?
   (iii) Distinguish : Interception V/s. Interruption.
   (iv) Distinguish : Crackers and Career Criminals.
   (v) What do you mean by Confidentiality?
(b) Explain the followings : (any two) 12
   (i) Threat, controls, attacks and vulnerability.
   (ii) Explain types of controls against threats.
   (iii) Discuss : Current research and future directions of cyber security.

2 (a) Do as directed : (any three) 6
   (i) Distinguish : Transient virus V/s. Resident virus.
   (ii) List out various types of virus.
   (iii) What do you mean by Password management.
   (iv) What is intruder ?
(b) Attempt the followings : (any two)

(i) What is malicious code? Explain all types of malicious code.
(ii) What is Firewall? Explain its types.
(iii) Explain intruder detection.

3 (a) Do as directed : (any five)

(i) Define: Encryption.
(ii) Define: Cryptanalysis.
(iii) Define: Cryptology.
(iv) Explain Simplest Encryption algorithm.
(v) What is Block Ciphers?
(vi) What do you mean by breakable Encryption?

(b) Attempt the followings : (any two)

(i) What is AES algorithm? Distinguish between AES and DES.
(ii) Explain key distribution problem in detail.
(iii) Explain Hash function.

4 (a) Do as directed :

(i) Define: Digital Signature, Digital Certificate.
(ii) Full form: PGP, MIME.
(iii) Which algorithm is used as Compression algorithm?

(b) Attempt the following : (any two)

(i) Explain Digital Signature Standard.
(ii) Explain PGP in detail.
(iii) Explain Secure Socket Layer.