22620

12526

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

Instructions – (1) All Questions are *Compulsory.*

(2) Answer each next main Question on a new page.

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

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

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

a) Explain Man in the middle attack.

b) What is authentication and access control ?

c) Define symmetric key cryptography.

d) What is kerberos ?

e) Explain need of computer security.

f) What is pocket filter firewall and statefull packet filter firewall ?

g) Define :

i) AS

ii) TGS

P.T.O.

Marks

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

a) Describe CIA security model.

b) Explain biometrics with suitable diagram.

c) Explain digital signature in detail.

d) Differentiate between symmetric and asymmetric key cryptography. (Any four points)

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

a) List and explain Access control policies.

b) Explain DES algorithm.

c) Demonstrate the advantages of setting up DMZ with two firewall.

d) Why password is necessary ? Explain password attacks.

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

a) Convert given plain text into cipher text using single columnar technique.
Plain text :- INFORMATION SECURITY
No. of column :- 6
Encryption key :- 326154

b) State need of firewall.

c) What is honeypot ? Explain honeypot architecture.

d) Describe :

i) Cyber terrorism.

ii) Cyber defamation

e) Explain transposition technique with suitable example.

Marks

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

a) Define attack. List and explain types of attacks.

b) Explain firewall policies.

c) Describe COBIT framework with suitable example.

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

a) What is operating system security ? Explain with operating system updates.

b) Explain IP security.

c) Define :

i) NIDS

ii) HIDS

iii) Anomaly based IDS.
