314319

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) Use of Non-programmable Electronic Pocket Calculator is permissible.

(7) 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) Compare virus and logic Bomb (Any two points of each)

b) Explain the term asset.

c) List principles of access control.

d) Define following terms :

i) Cryptography

ii) Cryptology

e) Draw diagrammatic representation of DES algorithm.

f) Define the term Honeypots.

g) List types of cyber crime.

P.T.O.

Marks

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

a) Explain man in the middle attack with example.

b) Enlist types of Biometrics and explain any one in detail.

c) Convert plain text into cipher text by using simple columnar technique of the following sentence –
"Maharashtra State Board of Technical Education"

d) Explain RSA algorithm with example.

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

a) Explain any four password policies.

b) Differentiate between symmetric and asymmetric cryptography. (Min. four points each)

c) Describe threats to mobile phones. Explain the prevention measures.

d) Describe SMTP in email security.

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

a) Explain criteria for information classification.

b) Explain the terms authorization and authentication with respect to security.

c) Describe the working encryption and decryption with example.

d) Describe digital signature.

e) Explain cyber law. List the need of cyber law.

Marks

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

a) Explain basic principles of information security with example.

b) Describe the steps and perform simple columnar transposition technique on the following with column size = 6 and read output with order of column as 4, 6, 1, 2, 5, 3. Input for the same is – "Come Home Tomorrow".

c) State and explain three types of firewall configurations with a neat diagram.

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

a) Explain working of stegnography. Write advantages and disadvantages.

b) Explain Diffie Hellman key exchange algorithm with example.

c) Describe the DMZ with suitable diagram.

———