

22620

12425

3 Hours / 70 Marks

Seat No.

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- 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) Define CIA model of Security Basic.
- (b) Enlist the types of Firewalls.
- (c) Differentiate between Virus & Worm (any two).
- (d) Explain the term Cryptography.
- (e) Define the term Honeypots.
- (f) Enlist two Intrusion Detection System.
- (g) Enlist two Active & Passive attack each.

2. Attempt any THREE of the following :

12

- (a) Explain criterias for information classification.
- (b) Describe the dumpster diving with its prevention mechanism.



- (c) Draw and explain Host-Based intrusion detection system.
- (d) Explain Data Encryption Standard.

3. Attempt any THREE of the following :

12

- (a) Define following terms :
 - (i) Operating system security
 - (ii) Hot fix
 - (iii) Patch
 - (iv) Service Pack
- (b) Define password selection strategies.
- (c) Explain Caesar's Cipher substitute technique with suitable example.
- (d) Explain Email Security in SMTP.

4. Attempt any THREE of the following :

12

- (a) Differentiate between Symmetric and Asymmetric key cryptography.
- (b) Draw and explain DMZ.
- (c) Describe cyber crime and cyber laws in detail.
- (d) Write a brief note on Firewall configuration and state its limitations.
- (e) Draw and explain network-based intrusion detection system.

5. Attempt any TWO of the following :

12

- (a) Draw and explain DOS & DDOS attack in detail.
- (b) Write short note on :
 - (i) Digital signature
 - (ii) Steganography
- (c) Explain Kerberos with the help of suitable diagram.

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

- (a) Describe following terms w.r.t. biometric :
 - (i) Finger Print Analysis
 - (ii) Retina Scan
 - (iii) Keystroke
 - (b) Draw and explain following terms :
 - (i) Packet Filter Firewall
 - (ii) Proxy Server
 - (c) Explain following terms of intellectual property right :
 - (i) Copyright
 - (ii) Patent
 - (iii) Trademark
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