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22620

21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

- 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 following terms :
 - (i) Confidentiality
 - (ii) Accountability
- (b) Explain the terms :
 - (i) Shoulder surfing
 - (ii) Piggybacking
- (c) Define term cryptography.
- (d) Classify following cyber crimes :
 - (i) Cyber stalking
 - (ii) Email harassment

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- (e) Differentiate between viruses & worms (Any two).
- (f) Define firewall. Enlist types of firewalls.
- (g) Define AH & ESP with respect to IP security.

2. Attempt any THREE of the following :

12

- (a) Define following terms :
 - (i) Operating System Security
 - (ii) Hot fix
 - (iii) Patch
 - (iv) Service pack
- (b) Explain the mechanism of fingerprint & voice pattern in Biometrics.
- (c) Differentiate between symmetric & asymmetric key cryptography.
- (d) Write & explain DES algorithm.

3. Attempt any THREE of the following :

12

- (a) Describe the features of DAC access control policy.
- (b) Consider plain text “COMPUTER ENGINEERING” & convert given plain text into cipher text using ‘Caesar Cipher’ with shift of position three - write down steps in encryption.
- (c) Differentiate between host-based & network based IDS.
- (d) Define access control & explain authentication mechanism for access control.

- 4. Attempt any THREE of the following :** **12**
- (a) Enlist substitution techniques & explain any one.
 - (b) Explain DMZ.
 - (c) Differentiate between firewall & IDS.
 - (d) Explain Email security in SMTP.
 - (e) Explain Digital Signature in Cryptography.
- 5. Attempt any TWO of the following :** **12**
- (a) Define Information. Explain basic principle of information security.
 - (b) Define & explain :
 - (i) Circuit Gateway
 - (ii) Honey Pots
 - (iii) Application Gateway
 - (c) Explain the working of Kerberos.
- 6. Attempt any TWO of the following :** **12**
- (a) Explain DOS with neat diagram.
 - (b) Explain Public Key Infrastructure with example.
 - (c) Explain Policies, configuration & limitations of Firewall.
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