

17514

21819

3 Hours / 100 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.

Marks

1. (A) Attempt any THREE : 12

- (a) Explain the term Intruders and Insiders.
- (b) Explain piggybacking and shoulder surfing.
- (c) Explain the terms :
 - (i) Gyptography
 - (ii) Gyptanalysis
 - (iii) Gyptology
 - (iv) Cipher text
- (d) Define virus and logic bomb.

(B) Attempt any ONE : 6

- (a) Explain the terms :
 - (i) Assets
 - (ii) Vulnerability
 - (iii) Risks

- (b) Describe following terms of intellectual property :
- (i) Copyright
 - (ii) Patent
 - (iii) Trademark

2. Attempt any TWO : 16

- (a) Explain man-in-the-middle and TCP/IP Hacking attacks.
- (b) Explain access control policies.
- (c) Explain the rail fence techniques and simple columnar transposition technique. Solve the following example using rail fence technique. "COMPUTER SECURITY IS IMPORTANT".

3. Attempt any FOUR : 16

- (a) List types of firewall. Explain packet filter with diagram.
- (b) Explain fingerprint and retina pattern in biometric.
- (c) Explain steganography technique.
- (d) Explain working principle of SMTP.
- (e) Explain web security threats.

4. (A) Attempt any THREE : 12

- (a) Explain the concept of hacking.
- (b) Explain the working of VPN.
- (c) Explain data recovery procedure.
- (d) Explain secure socket layer.

- (B) Attempt any ONE :** **6**
- (a) Explain CIA model for security.
 - (b) Explain sniffing and spoofing attacks.
- 5. Attempt any TWO :** **16**
- (a) Explain role of people in security.
 - (b) Explain proxy server and application level gateway.
 - (c) Explain VLAN in detail.
- 6. Attempt any FOUR :** **16**
- (a) Describe different password selection criteria.
 - (b) Explain Caesar's cipher substitution technique with example.
 - (c) Explain working principle of PGP.
 - (d) Explain formatted partition recovery.
 - (e) Explain secure electronic transaction.
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