

17514

21718

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.
 - (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. (A) Attempt any THREE : **12**

- (a) What is Computer Security & its need ?
- (b) Explain criteria for password selection.
- (c) Explain one time pad. technique.
- (d) Define Counter Measure in computer system & threats types atleast four for computers.

(B) Attempt any ONE : **6**

- (a) Explain Security Basics in detail.
- (b) Explain following terms of Intellectual property :
 - (i) Copyright, (ii) Patent, (iii) Trademark.

- 2. Attempt any TWO :** **16**
- (a) Explain risk & threat analysis w.r.t.
 - (i) Assets, (ii) Threats, (iii) Vulnerabilities
 - (b) Describe Access control policies in detail.
 - (c) Describe digital signature mechanism with neat diagram.
- 3. Attempt any FOUR :** **16**
- (a) Describe proxy server.
 - (b) Describe in brief :
 - (i) Piggy backing
 - (ii) Shoulder Surfing
 - (c) Decipher a message :
“TSACT SGCEB HISRM SELNV ISEEE AVITP” using a Rail fence using 10 columns & 3 rails & retrieve original message.
 - (d) Describe VPN (Virtual private network) in brief & define DMZ.
 - (e) Write the steps to create active directory in windows server OS.
- 4. (A) Attempt any THREE :** **12**
- (i) What are the techniques for transforming plain text to cipher text ?
Explain any one in detail.
 - (ii) Describe packet filter router firewall with neat diagram.
 - (iii) Explain IT Act, 2008 laws.
 - (iv) Describe process of application Hardening.

- (B) Attempt any ONE :** **6**
- (i) Explain Malware.
 - (ii) Describe Insiders & Intruders. Who is more dangerous ?
- 5. Attempt any TWO :** **16**
- (a) Explain working of fingerprint mechanism & its limitations.
 - (b) Describe the working of PEM e-mail security & PGP with reference to e-mail security.
 - (c) Give IPSEC configuration. Describe AH & ESP Modes of IPSEC.
- 6. Attempt any FOUR :** **16**
- (a) Describe role of people in security.
 - (b) Explain the concept of Hashing. Give its advantage.
 - (c) Explain Honey Pots.
 - (d) Describe data recovery procedures & ethics.
 - (e) Explain how SQL injection can be done on website with example & prevention of it for web security.
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