

17514

11920

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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. (A) Attempt any THREE of the following :

12

- (a) Define Virus. Describe different phases of virus.
- (b) Describe components of good password.
- (c) Consider plain text "Welcome to Computer World", encrypt with help of Rail fence technique, also write the algorithm.
- (d) List and explain four techniques used by firewall to control access and enforce security policy.

(B) Attempt any ONE of the following :

6

- (a) Explain spoofing attack with example. State different ways of spoofing.
- (b) Explain in brief IT Act 2000 and IT Act 2008.

- 2. Attempt any TWO of the following :** **16**
- (a) List different types of attack. Describe any two in brief.
 - (b) Explain DES algorithm ? Explain each step in detail with help of diagram.
 - (c) Describe IDS and its two types.
- 3. Attempt any FOUR of the following :** **16**
- (a) Compare Intruders and Insiders.
 - (b) Explain password selection strategies.
 - (c) Define the following terms :
 - (i) Cryptography
 - (ii) Crypt analysis
 - (iii) Cryptology
 - (iv) Steganography
 - (d) Explain role of PGP in Email security.
 - (e) Describe SSL protocol.
- 4. (A) Attempt any THREE of the following :** **12**
- (a) Explain DOS attack with neat labelled diagram.
 - (b) Enlist types of Biometrics. Explain any one type in detail.
 - (c) Describe cyber crime ? Describe hacking & cracking related to cyber crime.
 - (d) List & explain the key participants in Secure Electronic Transaction. (SET).
- (B) Attempt any ONE of the following :** **6**
- (a) Describe Digital signature mechanism with neat diagram.
 - (b) Explain VPN with diagram.

- 5. Attempt any TWO of the following :** **16**
- (a) Describe access control, availability, authentication, authorisation related to physical security.
 - (b) Explain DAC & MAC with principles & policies.
 - (c) Explain the Kerberos with help of suitable diagram.
- 6. Attempt any FOUR of the following :** **16**
- (a) Explain different models of access control.
 - (b) Describe piggybacking and shoulder surfing.
 - (c) Describe the working principle of firewall.
 - (d) List and explain different types of hackers.
 - (e) Explain four threats to web security.
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