



17514

15116

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) *All questions are compulsory.*
 - (2) *Illustrate your answers with neat sketches wherever necessary.*
 - (3) *Figures to the right indicate full marks.*
 - (4) *Assume suitable data, if necessary.*
 - (5) *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
 - 1) Describe security principles based on CIA.
 - 2) Explain piggybacking.
 - 3) Compare symmetric and asymmetric key cryptography.
 - 4) Describe terms regarding computer security.
 - i) Assets
 - ii) Vulnerability
 - iii) Threats
 - iv) Risk
- b) Attempt **any one** of the following : 6
 - 1) Explain model of security with block diagram.
 - 2) Explain data recovery tools and procedures.
2. Attempt **any two** of the following : 16
 - 1) Explain any four attacks on computer systems security.
 - 2) Explain at least four roles of peoples in security.
 - 3) Explain SHA-1 algorithm with diagram.
3. Attempt **any four** of the following : 16
 - 1) Explain the concept of Kerberos.
 - 2) Describe the process of biometric authentication with neat labelled diagram for finger print.
 - 3) Explain use of S-Box in implementation of DES algorithm.
 - 4) Explain working of PGP email security.
 - 5) Explain the steps for hardening applications.

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**Marks**

- 4. a) Attempt **any three** of the following :** **12**
- 1) Explain concept of Hashing with example and properties.
 - 2) Describe following term :
 - i) DMZ
 - ii) Internet
 - iii) Intranet
 - iv) IDS
 - 3) Explain cyber crime
 - 4) Explain working of Handshake protocol in SSL.
- b) Attempt **any one** of the following :** **6**
- 1) Define attack. Explain steps in attack.
 - 2) Define virus. Explain atleast 5 types of viruses.
- 5. Attempt **any two** of the following :** **16**
- 1) Explain what are components of good password and four password selection strategies.
 - 2) Explain in detail intrusion detection systems.
 - 3) Explain need for firewall and explain one of the type of firewall with diagram.
- 6. Attempt **any four** of the following :** **16**
- 1) Enlist any four consequences when the system is accessed by non-employee.
 - 2) Explain rail fence transposition technique.
 - 3) Explain AH mode of IP security.
 - 4) Explain IT Act 2000 and 2008.
 - 5) Explain the function of entities used in SET.
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