

17518

21718

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 :

3 × 4 = 12

- (a) Define information. State need and importance of information.
- (b) Define information security. Explain the concept of risk management with its components.
- (c) Difference between symmetric and asymmetric cryptography.
- (d) Describe in brief Cyber Crime. List different types of Cyber Crime.

(B) Attempt any ONE :

1 × 6 = 6

- (a) Explain the three pillars of information security. Describe with neat diagram.
- (b) Explain the concept of Trusted Computing Base.

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2. Attempt any TWO :**2 × 8 = 16**

- (a) Define security. Describe different types of securities in organization.
- (b) State the substitution cipher. List the substitution cipher techniques and explain any two.
- (c) List and explain different data Recovery tools.

3. Attempt any FOUR of the following :**4 × 4 = 16**

- (a) With respect to information security define following term :
 - (i) Security policy
 - (ii) Standards
 - (iii) Guideliness
- (b) What is information ? Explain Data Obfuscation.
- (c) State the importance of information classification. State the criteria for information classification.
- (d) Consider a plain text message 'I AM A HACKER'. Encrypt it with the help of Caesar's Cipher technique with steps.
- (e) Define the following terms :
 - (1) Hacking
 - (2) Bug Exploits
 - (3) Mail Bomb
 - (4) Intellectual Property

4. (A) Attempt any THREE : 3 × 4 = 12
- (a) Explain Reference model with neat diagram.
 - (b) Describe various physical Access threats.
 - (c) Explain TCSEC in detail.
 - (d) Consider a plain text message “Hi How Are You”. Encrypt it with the help of Rail Fence Technique.
- (B) Attempt any ONE : 1 × 6 = 6
- (a) Describe the term Digital Signature with its working.
 - (b) Describe play Fair Cipher with example Step by Step.
5. Attempt any TWO : 2 × 8 = 16
- (a) How do you recover the data in below situations ?
 - (1) Deleted file Recovery
 - (2) Formated partition Recovery
 - (b) Describe COBIT framework
 - (c) Describe Biometric system. Describe the classification of Biometric characteristics.
6. Attempt any FOUR : 4 × 4 = 16
- (a) Describe IT Act, 2008
 - (b) Explain working of SSO
 - (c) Explain BIBA model for integrity.
 - (d) Describe ITSEC with its classes.
 - (e) Explain HILL cipher technique with example for 2×2 matrix.
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