

22496

24225

3 Hours / 70 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

5×2

- (a) List types of attacks.
- (b) State any two disadvantages of Hash.
- (c) State proxy server.
- (d) Define OWASP.
- (e) State Ransomware attack.
- (f) Define Virus.
- (g) Write cipher text for plain text "Computer Security" using Caesar cipher.

2. Attempt any FOUR of the following :

4×3

- (a) Define the following terms :
 - (i) Cryptography
 - (ii) Cryptanalysis
 - (iii) Cryptology
 - (iv) Steganography
- (b) Differentiate between Host based IDS and Network based IDS.
- (c) State any four drawbacks of Retina scan Biometrics.



- (d) Write procedure to set good password.
- (e) Explain how deleted file can be recovered.

3. Attempt any FOUR of the following :

4×3

- (a) Explain with neat sketch working of Secure Socket Layer (SSL).
- (b) Write steps for setting file and folder permission.
- (c) What is two-factor authentication ? Write different ways to use it.
- (d) Describe symmetric and asymmetric key cryptography.
- (e) Explain VPN with diagram.

4. Attempt any THREE of the following :

3×4

- (a) What is Computer Security & its need ?
- (b) What is firewall ? How does it work ? Enlist limitations of firewall.
- (c) Describe rail fence technique. Convert “I am student” into cipher text using rail fence method.
- (d) Write importance of cyber security.
- (e) What is meant by access control ? Describe in brief.

5. Attempt any THREE of the following :

3×4

- (a) List out and describe any four types of brute force attack.
- (b) State & explain two-factor authentication process.
- (c) Explain Man-In-Middle attack with help of diagram.
- (d) Write steps followed in Kerberos.
- (e) Describe Encryption and Decryption with reference to computer security.

6. Attempt any TWO of the following :

2×6

- (a) Explain transposition technique. Convert plain text to Cipher text using Rail Fence technique “COMPUTER ENGINEERING”.
 - (b) Describe PGP and write steps for PGP with reference to email security.
 - (c) Write steps for Fingerprint registration & verification process.
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