

17514

11718

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.

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| 1. (a) Attempt any THREE : | 12 |
| (i) State the need of Computer Security. | |
| (ii) List types of attacks. Explain back doors and trap doors attacks. | |
| (iii) Compare symmetric and asymmetric key cryptography. | |
| (iv) Explain the terms : Cryptography, Cryptanalysis and Cryptology. | |
| (b) Attempt any ONE : | 6 |
| (i) Describe the following attacks : | |
| (A) Sniffing | |
| (B) Spoofing | |
| (ii) Explain data recovery tools and data recovery procedures. | |

2. Attempt any TWO of the following :**16**

- (a) Explain any four attacks on Computer System Security.
- (b) What is the importance of biometrics in Computer Security ? Describe finger prints registration and verification process.
- (c) Explain transposition technique. Convert plain text to Cipher text using Rail Fence technique "COMPUTER ENGINEERING".

3. Attempt any FOUR :**16**

- (a) Explain the concept of Kerberos.
- (b) Describe different password selection criteria.
- (c) List types of firewall. Explain packet filter with diagrams.
- (d) Describe host based IDS with its advantages and disadvantages.
- (e) Explain the steps for hardening applications.

4. (a) Attempt any THREE of the following :**12**

- (i) Explain simple columnar transposition technique with algorithm and example.
- (ii) Draw and explain virtual private network.
- (iii) Explain Cyber Crime.
- (iv) What is software piracy ?

- (b) **Attempt any ONE :** **6**
- (i) Explain DOS and DDOS with neat diagram.
 - (ii) Define virus. Explain atleast 5 types of viruses.
- 5. Attempt any TWO :** **16**
- (a) Explain individual user responsibilities in Computer Security.
 - (b) What is Security topology ? Describe Security zone in detail.
 - (c) Explain need for firewall and explain one of the type of firewall with diagram.
- 6. Attempt any FOUR :** **16**
- (a) Describe dumpster diving with its prevention mechanism.
 - (b) Explain the term stenography with example.
 - (c) Explain e-mail security techniques (protocols).
 - (d) What is intrusion detection system ? Explain host based IDS.
 - (e) What is TLS ? What are two layers of TLS ?
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