



17518

15116

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) Assume suitable data, if **necessary**.
 - (4) 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 |
| a) Mention basics principles of information security. | |
| b) State the common criteria for information security evaluation. | |
| c) What is cryptography ? Mention any three application of it. | |
| d) What are cyber crimes ? List its different types. | |
| b) Attempt any one : | 6 |
| a) What is information ? Describe the need and importance of information. | |
| b) State the security guidelines of information security. | |
| 2. Attempt any two : | 16 |
| a) State and describe the three pillars of information security with neat diagram. | |
| b) What is digital signatures ? State digital signature standards. | |
| c) Name data recovery tools and explain data recovery procedures. | |
| 3. Attempt any four : | 16 |
| a) What is Risk ? Describe Risk Management. | |
| b) Describe the need of physical security. | |
| c) Describe the term rings of trust. | |
| d) Describe play fair cipher. | |
| e) Describe the IT Act, 2008. | |
| 4. a) Attempt any three : | 12 |
| a) Explain the protection mechanisms in a trusted computing base. | |
| b) Mention different compliance standards for information security. | |
| c) Explain the concept of TCB. | |
| d) Explain classical encryption techniques of cryptography. | |

P.T.O.

**Marks**

- b) Attempt **any one** : **6**
- a) Explain how to encrypt and decrypt message using transposition method.
 - b) What is steganography ? Describe authentication protocols.

5. Attempt any two : **16**

- a) Describe the following terms :
 - i) Mail Bombs
 - ii) Hacking
 - iii) Pornography
 - iv) Cracking.
- b) Write a short note on ITIL and COBIT framework.
- c) Describe different authorization and authentication mechanism.

6. Attempt any four : **16**

- a) Explain about viruses and viruses attacks.
 - b) Write a note on biometrics.
 - c) Describe BIBA model of integrity.
 - d) Describe ITSEC with its classes.
 - e) Explain ceasor cipher with example.
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