

**B. TECH, B. TECH + MBA DUAL DEGREE**



4. Explain the following in detail :
- (a) Online fraud
  - (b) Zombies
  - (c) DOS
  - (d) UBE
5. Explain the CIA triad with the help of an example. What are the different types of hackers who can affect the CIA triad ?
6. Explain in detail about Cyber stalking, Cyber Terrorism, Cyber squatting.

**SECTION – B (20 Marks)**

*Attempt any two questions.*

*Each question carries 10 marks.*

7. Discuss the following terms in detail with relevant examples and diagrams :
- (i) Interruption
  - (ii) Interception
  - (iii) Modification
  - (iv) Fabrication

8. What are requirements for a Message Authentication code? Compare MAC with Hash functions.
9. What is IPR? How the ownership and enforcement of IPR is provided? Elaborate.

**SECTION – C** (20 Marks)

*(Compulsory)*

10. (a) Case study: A hacker "Raj" is planning to steal money from online bank account of "Rohan". Elaborate how Raj would be implementing his plan of theft? Devise a method to prevent it.

- (b) What are differences between a block cipher and a stream cipher? Explain various modes of operations of block ciphers.