

Unit II: Data Encryption Techniques and Standards

Q.N.	Question
1.	Compare between symmetric key encryption and asymmetric key Encryption
2.	Enlist and explain encryption methods
3.	What is Stream Ciphering? Discuss any one Stream ciphering in details
4.	Introduce the concept of data encryption techniques and standards
5.	Enlist and explain types of Ciphers used in encryption
6.	What is diffusion and confusion? Differentiate diffusion and confusion
7.	Explain various substitution technique used for data encryption
8.	Use Play fair cipher to encrypt the following message “This is columnar transpositions. “Use key APPLE
9.	Using hill cipher encrypt plain text “COE” use key “ANOTHERBZ”
10.	Explain transposition cipher
11.	Use Transposition Cipher to encrypt the plain text “WE ARE THE BEST” use key “HEAVEN”
12.	Define cryptography. Explain cryptography technique in detail.?
13.	Define Stenography. Describe its applications and limitations
14.	What is Block cipher? Explain Counter mode of block cipher
15. '	Explain the operation of Cipher Block chaining (CBC) Mode
16.	What does Block Ciphers mean? Explain the methods of operation of block ciphers.
17.	Explain operations of DES algorithm in detail.
18.	Explain operations of AES algorithm and state its application
19.	What is Data Encryption Standard? Explain Triple DES in detail
20.	Differentiate AES and DES algorithms
21.	Explain Data Encryption Standard with the help of example
22.	Describe the criteria for DES Design
23.	Explain the concept of weak keys in DES algorithm
24.	Use Play fair cipher to encrypt the following message “This is columnar transpositions. “Use key APPLE
25.	Write and explain Advance Encryption Standard (AES)
26.	Write a Short note on: A. Asymmetric vs. Symmetric Encryption, B. Feistel Cipher, C. Transposition Ciphers, D. Substitution Ciphers
27.	Describe CBC, ECB, CFB& OFB with the help of block diagram.
28.	What is the difference between a monoalphabetic cipher and a polyalphabetic cipher? explain with example?