

(Gurram Navin) [ION]

1 List of all Symmetric algorithms.

Ans. Symmetric encryption is a type of encryption where only one key is used to both encrypt and decrypt electronic information.

→ There are mainly two type of symmetric encryption algorithm.

1). Block algorithm :- Set lengths of bits are encrypted in block of electronic data with the use of a specific key.

2). Stream algorithms :- Data is encrypted as it stream instead of being retained in the system's memory.

\* Some examples of symmetric encryption algorithm.

→ AES

→ DES

→ IDEA

→ Blowfish

→ RC4

2 List all asymmetric key algorithms

Ans- Asymmetric key algorithms work in a similar manner to symmetric key algorithm where plaintext is combined with a key input to an algorithm & outputs ciphertext

\* Asymmetric key algorithm

1. Diffie - Hellman key agreement
2. Rivest Shamir Adleman.
3. Elliptic curve cryptography
4. Digital signature Algorithm



3 List the algorithms for message digest.

Ans Message digest algorithm rely on cryptographic hash functions to generate a unique value that is computed from data and a unique symmetric key.

\* List of message digest algorithms

- 1) Message Digest 5 (MD5)
- 2) Secure Hash Algorithm (SHA-1)
- 3) SHA2 - 224
- 4) SHA2 - 256
- 5) SHA2 - 512