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-) REU RCY C Rivest Ciphes 4)

Q-2. List all asymmetric key elgorithms.

Ann Asymmetric key algorithms work in a similal mannes to symmetric key algorithm, where plaintent is combined with a key, input to an algorithm, and outputs alphatent.

- \* The key pair is comprised of a private key and a public key. As the name imply, the public key is made available to everyone, whele as the private key is kept secret.
- \* The two main uses of asymmetric-key algorithms are public-key encryption and digital signatures public-key encryption is a method where anyone can send an encrypted message within a trusted network.

  only receives can decrypte the message using the own private key.

Typer of asymmetric key algorithm

- 1. Diffie-Hellman key agreement.
- 2. Rivest Shamir Adleman.
- 3. Elliptic curve cyptography ( Ecc)
- 4. Digital signature Algorithm CDSA)

40 Que-3. List the algorithms for message digest Ans. Message digest algorithms rely on corptographic heish functions to generate a unique Valye that is computed from elater and a unique symmetric key \* A coyptographic has function inputs duta of abitrary length and produces a unique value of a fixed length. \* Adding a unique symmetric key that is shared between a sender and receiver in order to compute message digest velue provides confidentiality to ensure that the message digest com not be easily changed if the dater is changed in an unauthor zed or other manner, list of message digest algorithms. (1.) Message Digest 5 CMD5) (2.) Secure Hash Algorithm (3HA-I) (3.) SHA2 - 224 (4.) SHA2 - 256 (5) 3MA2-512