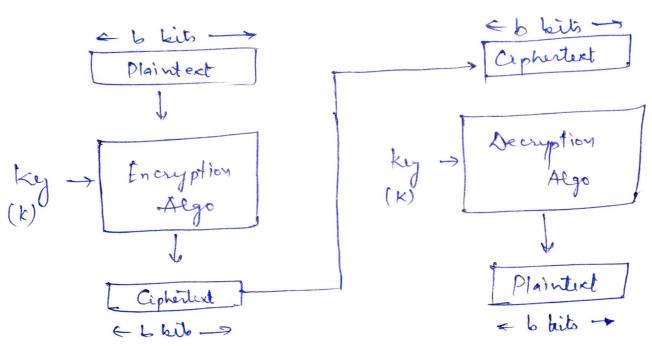
Let E be an encipherment algo & Let Ex (be)
be the encipherment of the message b with
key k.

Let a Mag m = b, b2 ... where be is of a fixed deapth.

Ek (m) = Ek (b1) Ek (b2)...

Block

Reyther ky Streen



(b) Block Ciphers.

JVANTAGES : -

- (1) High Diffusion: Info from One Plain Text Symbol is diffused into several Ciphertext Symbols.
- (ii) Immunity To Tempering: Difficult to insert Symbols without Detection

Dis advantages

- (i) Slowners of Encryption
- (ii) Error Propagation: Error in one symbol may corrupt the entire Block

Stream lipher Combines in Text buts with a Pseudorandon . Cipher bits stream vsig XOR Dp.

i) Stream Ciphers and varying transformation based on the state of engine.

Jii) Stream Ciphers Execute faster.

(iv) Stream Ciphus are less Complex.

when the PlainText is Available in varying quantities,:

block ciphers cannot operate directly an blocks shorter

than the block size.

Block Ciphero enought fixed dought blocks of texts.

Block Ciphers use the Same Transformations.

Block Ciphers execute Slowly Block Ciphers are more Complex

Using certain modes of op", a block Cipher can be used to act as a streem Cipher by allowing it to encrypt by allowing it to encrypt the smallest unit of data available