

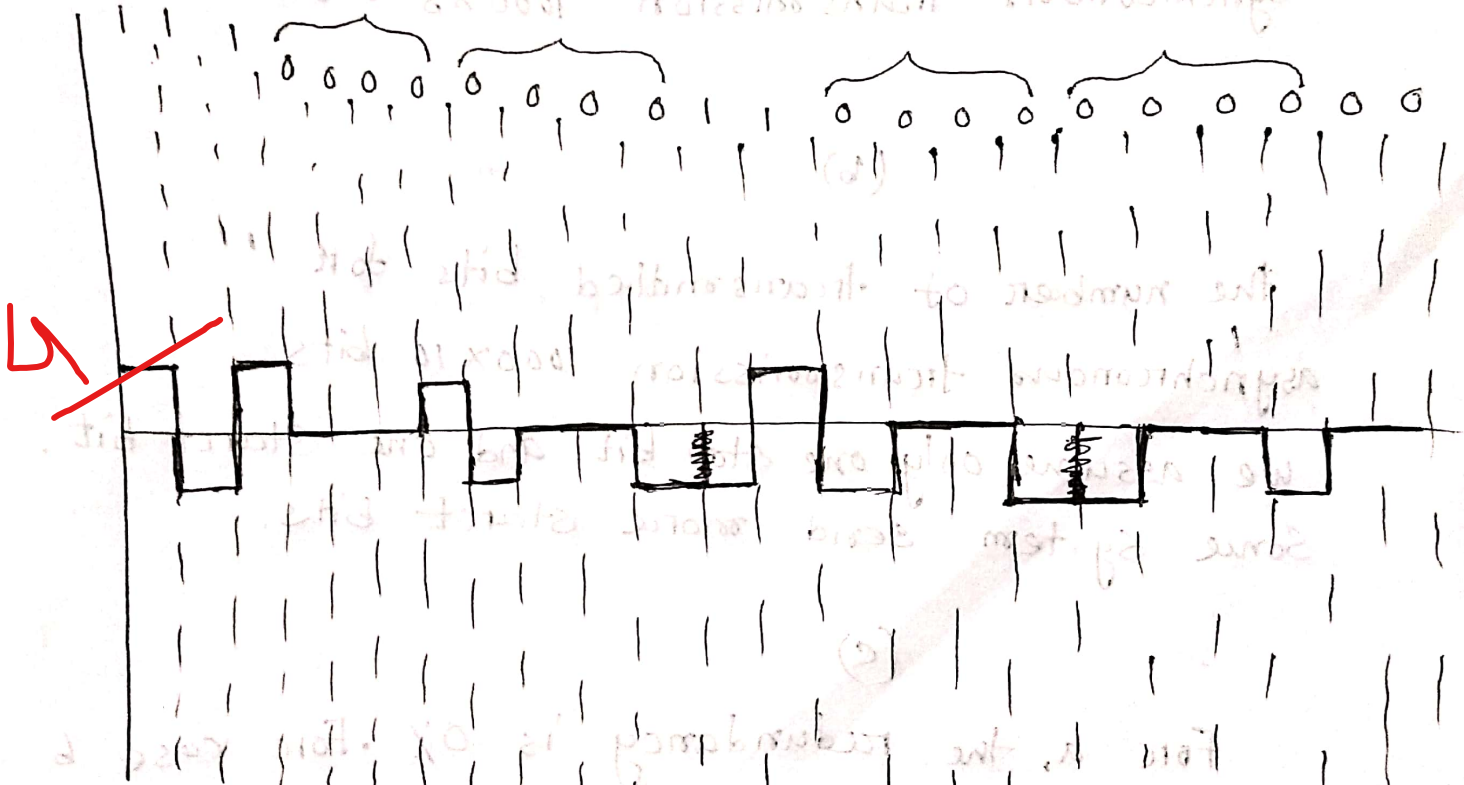
18101007

12

Ans. to the Q.NO:- 01

HDB3

111000000000110000000000



Ans. to the Q. NO:-02

(a)

the number of transmitted bits for

Synchronous transmission $1000 \times 8 = 8000$ bits

(b)

the number of transmitted bits for

asynchronous transmission 1000×10 bits.

we assume only one stop bit and one start bit.

Some system send more start bits.

(c)

For a, the redundancy is 0%. For case b we send 2000 extra for 8000 required bits. the redundancy is 25%.

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