Rumman Ahmed Fardeen

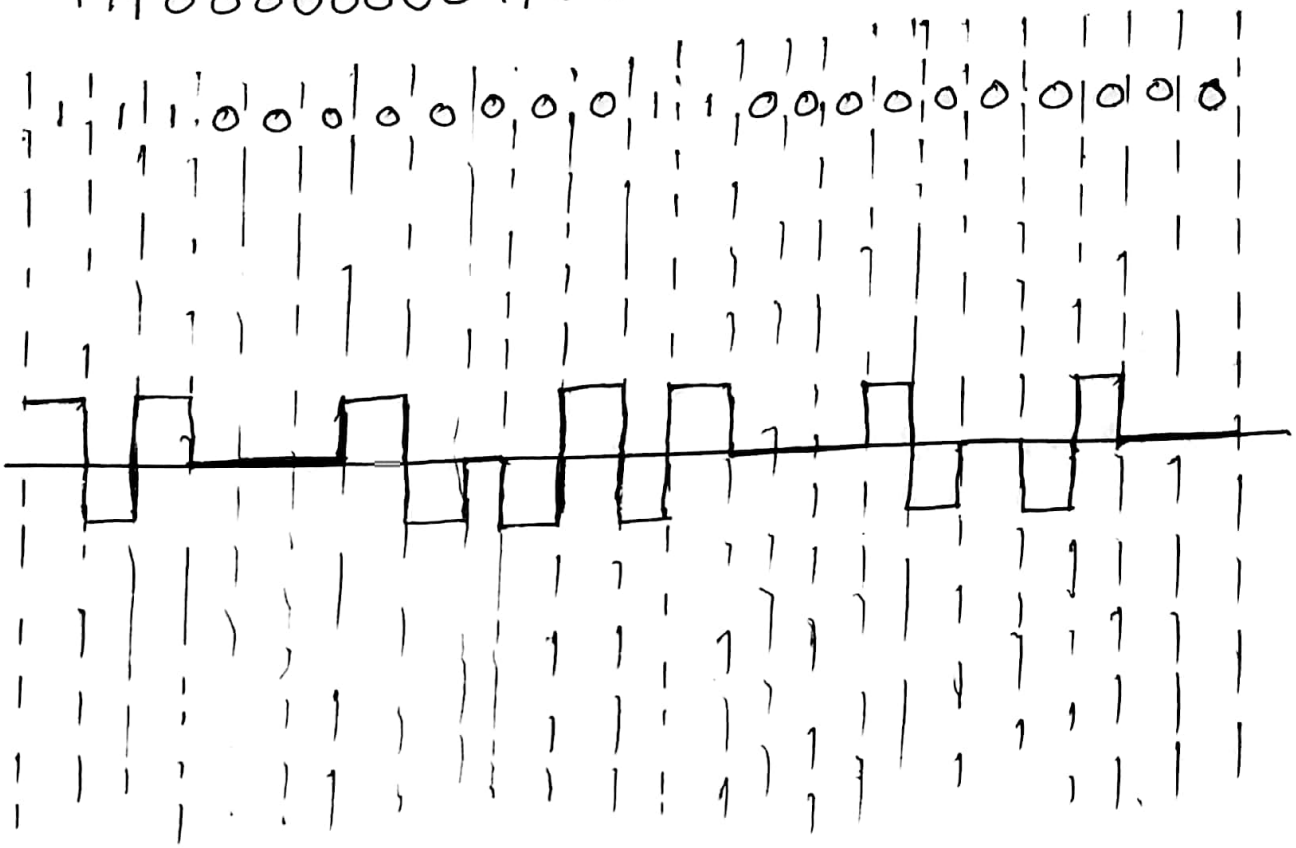
18101018

12

① My ID is 18101018. It is even

B8ZS:

1110000000011000000000



Previous level is positive

4

Ans. to the Q-2

(a) For synchronous transmission we do not need any extra bits. So for 8 bits data we will send 8 bits only.

~~Total transmission~~

Total transmitted bits = 1000 x 8

= 8000 bits

(b) for asynchronous transmission we need extra 2 bit for sending each bits.

Total transmitted bits = 1000 x 10

= 1000 bits

(c) For synchronous,

Total transmitted bits = 8000 bits

Total bits = 8000 bits

redundancy percent = $\frac{8000}{8000} \times 100\%$

$= 0.1 \times 100\%$

no redundancy = 0%

For assynchronous,

Total bits = 10000 bits

Total transmitted bits = 8000 bits

redundancy percent = $\frac{10000 - 8000}{8000} \times 100\%$

$= 1.25 \times 100\%$

8)

25% redundancy percent.