Name: Abdullah Mohammad Sakib
ID: 18101032 CT-3.
Sec: A

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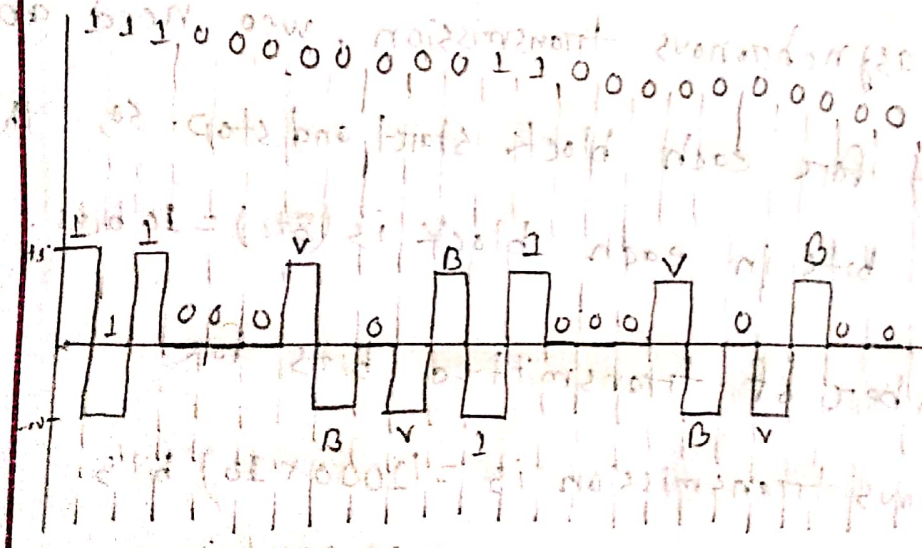
Ans. to. ques. no. -01

Data elements: 1110000000011000000000



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Ans.to.ques.no.-02

a) As in synchronous transmission bits doesn't need any start or stop bit so, the number of transmitted bits for synchronous transmission is $= (1000 \times 8)$ bits
$= 8000$ bits.

b) As in asynchronous transmission, we need two extra bit for each block start and stop. So, the number of bits in each block is $(8+2) = 10$ bits.

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∴ The number of transmitted bits for asynchronous transmission is $= (1000 \times 10)$ bits
$= 10,000$ bits.

c) The redundancy percent in each case $= (1000 \times 10)$ bits
$= 10,000$ bits.