Ans. to the B. no. I ID= 18101035 - 0dd lesing HDB3 using AMI technic 111 000 00000 11 0000000 000 We have to transmit 1000 character encoded on 8 bits.

1000X8 2 8000 bits number. synchronous:

asynchronous: 1000×10=10000 bit. Here one is stop bit and one

is start bit.

Synchronous redundency case is 0%. And asynghnous redundency is 25% as we have to send more than 2000 bits.