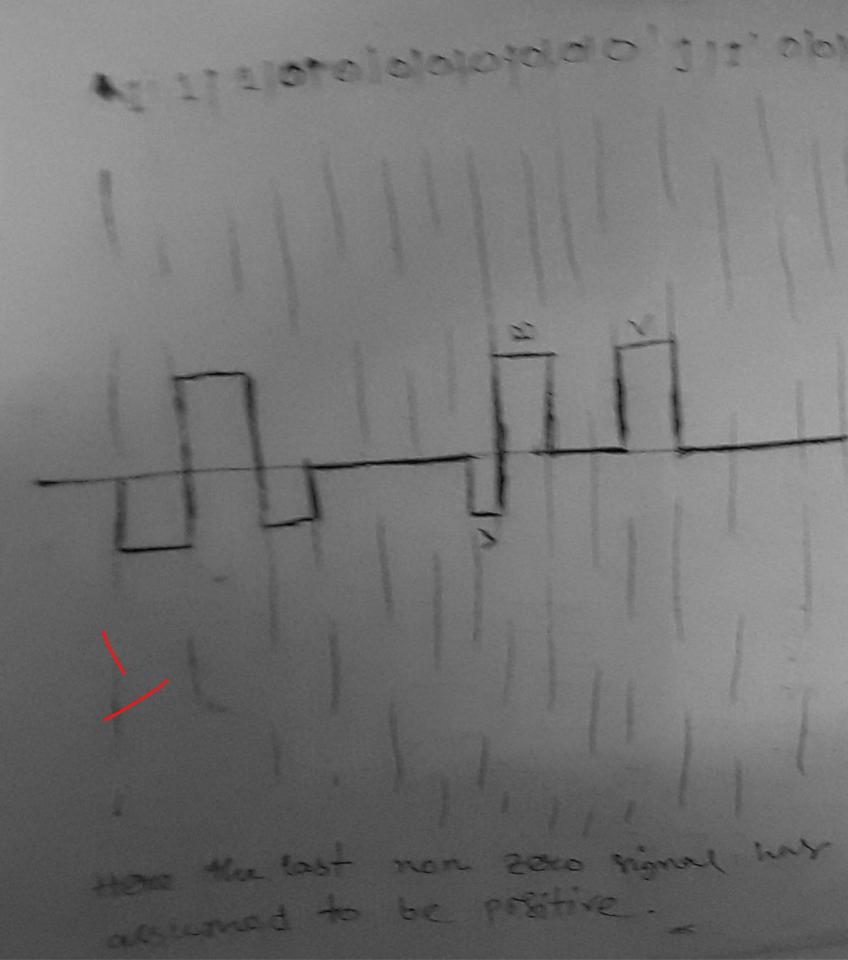
HASAN TAHSIN RAFSAN 18701009 CSE-303

1ST SEMESTER. GRD YEAR -

Ans 1

my id is odd. Sr. it "I'me HDB3 techniques.



- 2' Here the characters= 1000.
 encoded bits=8.

 Transmitted bits bon. Synchronous
 transmission = 1000 x 8 = 8000 bit
 - 6 For asymphiconory transmission we have 1000 × 10 = 10,000 bits.
- © For case @, nedundancy is 0%.

 For case @ we send 2000 entra Bon

 8000 nequired bits.

 So, the redundancy is 25%.