Answer to the question no. 2 (a) Having Mistance Calculation. (11110000, 00001101)=7 (111110000 , 10111010) = 3 (1111 0000, 011 10 111)=4 (0000 1101/ 101110 10) = 6 (000 0 1101 , 0 111 0 1 1 1) = 5 and (101 1 1010, 0 1110 111)=5 : Minimum Haming distance = 3 : Error direction d'min = S+1 => 3 = S+1 S = 2

The coding scheme can detect & list orror Non for Carrection:

> dmin = 2t+1 $\Rightarrow 3 = 2t+1 : t=1$

: The cooling scheme can correct upto 1 leit.

We the original data can be corrected to retime as the scheme can await upto 1 bit error.