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Ans: to the BNO: (1)

50. 4 have to use HDB3.

odd numbers of 1's -> 000 V

of even number of 1's -> Boov.

ctid (8 x 0001) = 0)(0,0,0,0)!,1(0,0,0,0)0,0,0,0,0,0,0

spinarealt anougondomics atip Colx18 doil)

Ans: to the 8 No:(2)

Nanc : Downson Alten

(a) The number of to transmitted bit for mysochrono nows transmission we med any extra bit. So. For 8 bit data we need to send 8 bit data only.

The number of transmitted data.

- (1000 x 8) bits

= 8000 bits.

(b) For asymphronous transmission we need extra 2 bits.

The number of transmitted data

2 (1000 x 10) bits 2 10000 bits.

(c) the redundancy percent for each case is through prophetential is 8000 ×100 × 6008-0004) = 1000 1000 % MAN 1000 MAN for synahronous here is no redundancy But for my asymphronous, 10000 × 100