	PAGE No.
	CCN assignment
	UID: 2012021700026
01	Name: Bodhisatya Ghash
<u>Q1.</u>	Explain Hamming code? Demonstrate Representation of 4-Vite code 1101 into 7 Vit, even pasity hamming code.
<u> </u>	Hamming codes are advanced estal detection codes of that use combination of parity bits to identify the position of estal. Redundant bits ale added to the oliginal bits to
	ensure no vits were lost during fransfel.
	Canvelt to Hamming Code
	Number of Redundant Vits = 9
	2° > m + 9+1, whole m is number of oligin
	Fal 9=3 21> 23>4+3+1
	$2^{3} > 4+3+1$ 8 > 8
	Total lits in hamming code= 3+4=7

	PAGE No.
	P2 P6 P6 Q1 P3 D2 D.
	Redundant bits ale added to pos=1,2,4 1 6 5 9 3 2 1 [1 1 0 D4 1 2 D2 D1]
	Fal D, check ever parity at 1, 3, 5, 7. I if no parity, else D, = 0
	7 6 9 4 7 2 1 1 1 0 P4 1 P2 0
	For D, check even pality at 42,3,6,7.1 if no party, else &
1	Du 1 0 0
	111001110
1	For Du, check ever pality at 4,5,6,7 Du=0
	1100110
	: 1101 in Hamming code is 1100110.

