Jugard

```
Q1 Parity = Odd
            Received code: 0011100101101
                   · D<sub>13</sub> D<sub>12</sub> D<sub>11</sub> D<sub>10</sub> D<sub>4</sub> P<sub>8</sub> D<sub>7</sub> P<sub>6</sub> D<sub>5</sub> P<sub>4</sub> D<sub>3</sub> P<sub>2</sub> P<sub>1</sub>
          Paxity bit P1: 1,13,5,7,9,11,13
                           = 1+1+0+0+1+1+0
                          = 4 (EVENITE : FIRST LEUDENEL
               · Error emists
          Paxity bit P2: 2,13,6,7,10,11
                           = 0+1 +1+0 +1+1
                           = 4 [Even]
          :. Error Present
          Parely bit P4: 4,5,6,7,12,13
                           = 1 +0 +1+0 +0 -0
                           = 2 (Even ]
          : Error Present
         Paxity bit P8: 8,9, 10,11, 12, 13
                           = 0+1+1+1+0+0
                         = 3 [odd]
         \therefore NO = VOY
\therefore P_8 = 0
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```

Error.	word (E)	>	P8	P4	P2	P
			0	ı	1	J

- : 7th bit is wrong
- :. Correct hamming code:
  - 0 0 1 18166 218 0 11 10 1 13 13 15 15
- : corrected Date: 001661900
  - 0 01110110110100

without Paxity = 001101101

. . 0, 0:11

Sundaram

	+ (D + A) + D(D + C)
82	$Y = AB + A(B+c) \neq B(B+c)$
	= AB + AB + AC + BB + BC [Distributive law]
	SISA A SISA E DAD A
	= AB + AC + B +BC [BB =B; AB +AB = AB ]
	= AB + AC + B(1+ c)
	= AB + AC + B [I+ C = 1]  IDENTITY
-	= AB + AC + B
	= B(I+A) + AC
	(2,1,1,2) = 1 3(5),24
	= B + AC 5A + 50 [1+A = 1]
	1 28 d'april anteu notappe bamb , et
	V
	10A + 5'3 T
0	A · C
	B+AC
	B

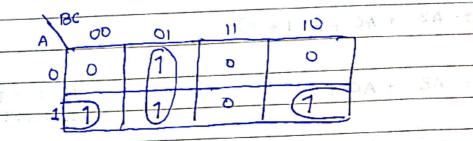
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93 SOP Form

3 vooriable K-Map

F = ABC' + AB'C' + A'B'C + AB'C



 $F = \Sigma(6,4,1,5)$ 

Y = BC + AC

The reduced equation using K-map is BC + Ac

= B'C + AC'