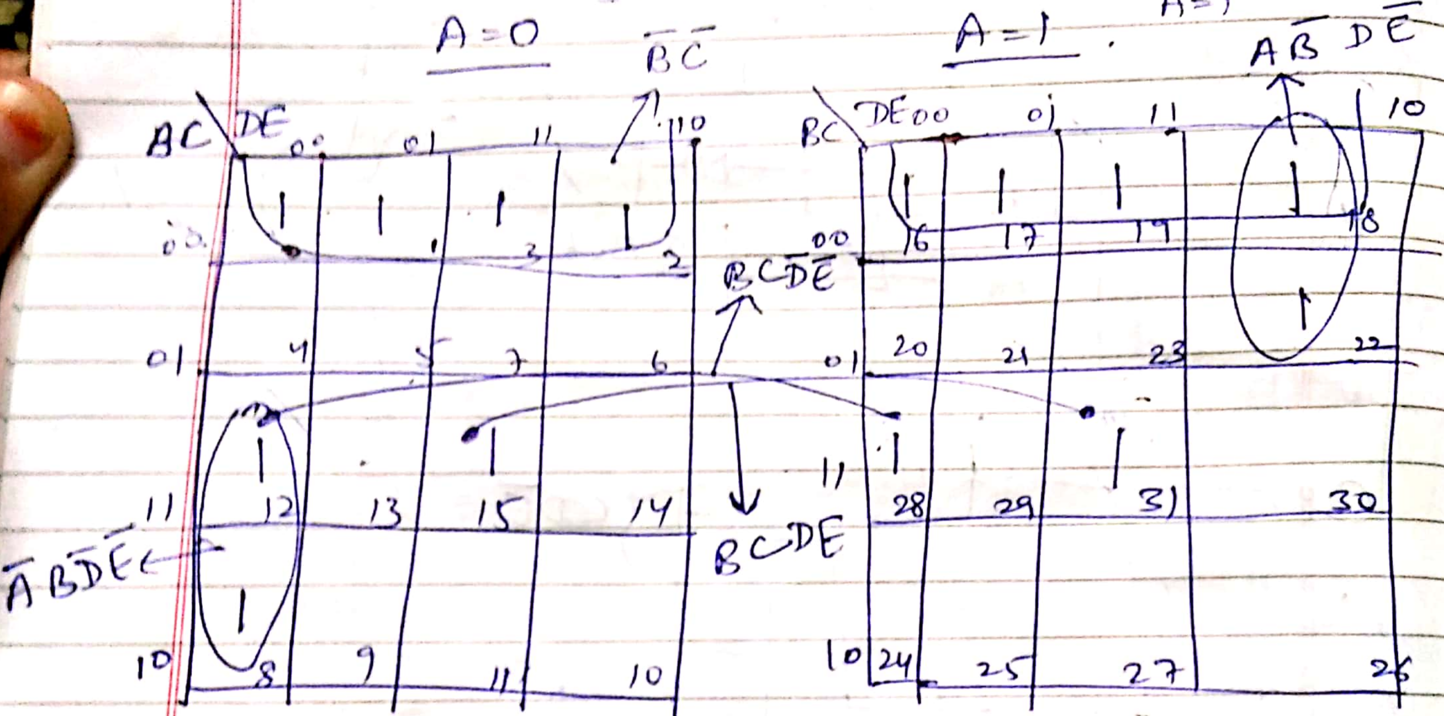
Tut-04

1. $f(A,B,C,D,E) = \Sigma(0,1,2,3,8,12,15,16,17,18,19,22,28,31)$

(A = 0: 0, 1, 2, 3, 8, 12, 15; A = 1: 16, 17, 18, 19, 22, 28, 31)



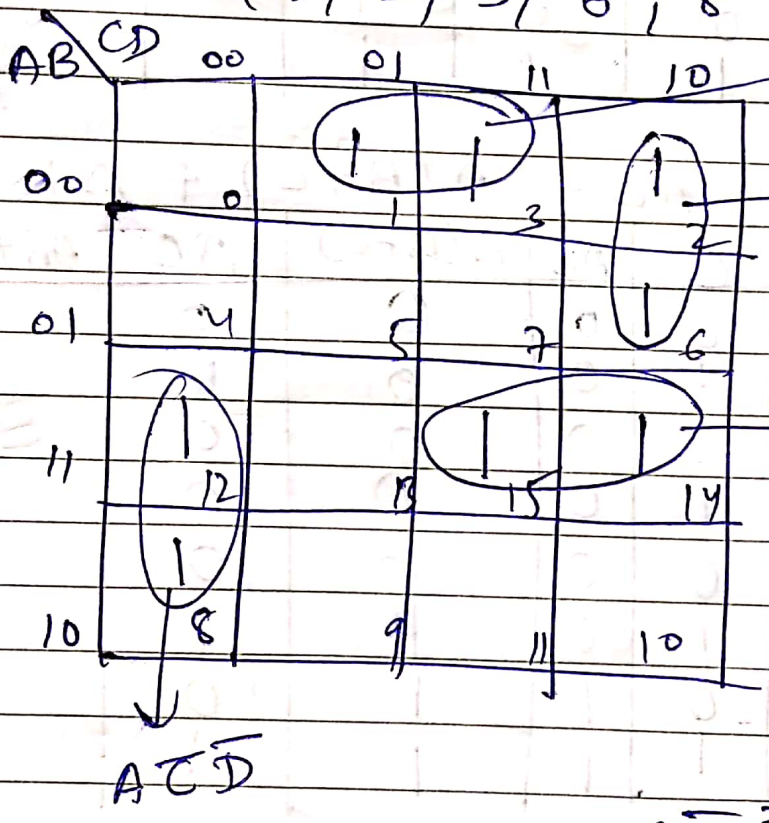
1 octet
4 pair.

$\bar B \bar C + \bar A B \bar D \bar E + A \bar B D \bar E + BCDE + BC\bar D \bar E$

A=0 A=1

~~$A\bar{B}\bar{C} + \bar{A}\bar{D}E + B\bar{C}D + \bar{B}\bar{C} + \bar{A}BDE$~~

(3) $\Sigma m(1, 2, 3, 6, 8, 12, 14, 15)$



$A\bar{C}\bar{D} + ABC + \bar{A}C\bar{D} + \bar{A}\bar{B}D$

(4) (a) $Y = A(B+C) + A$

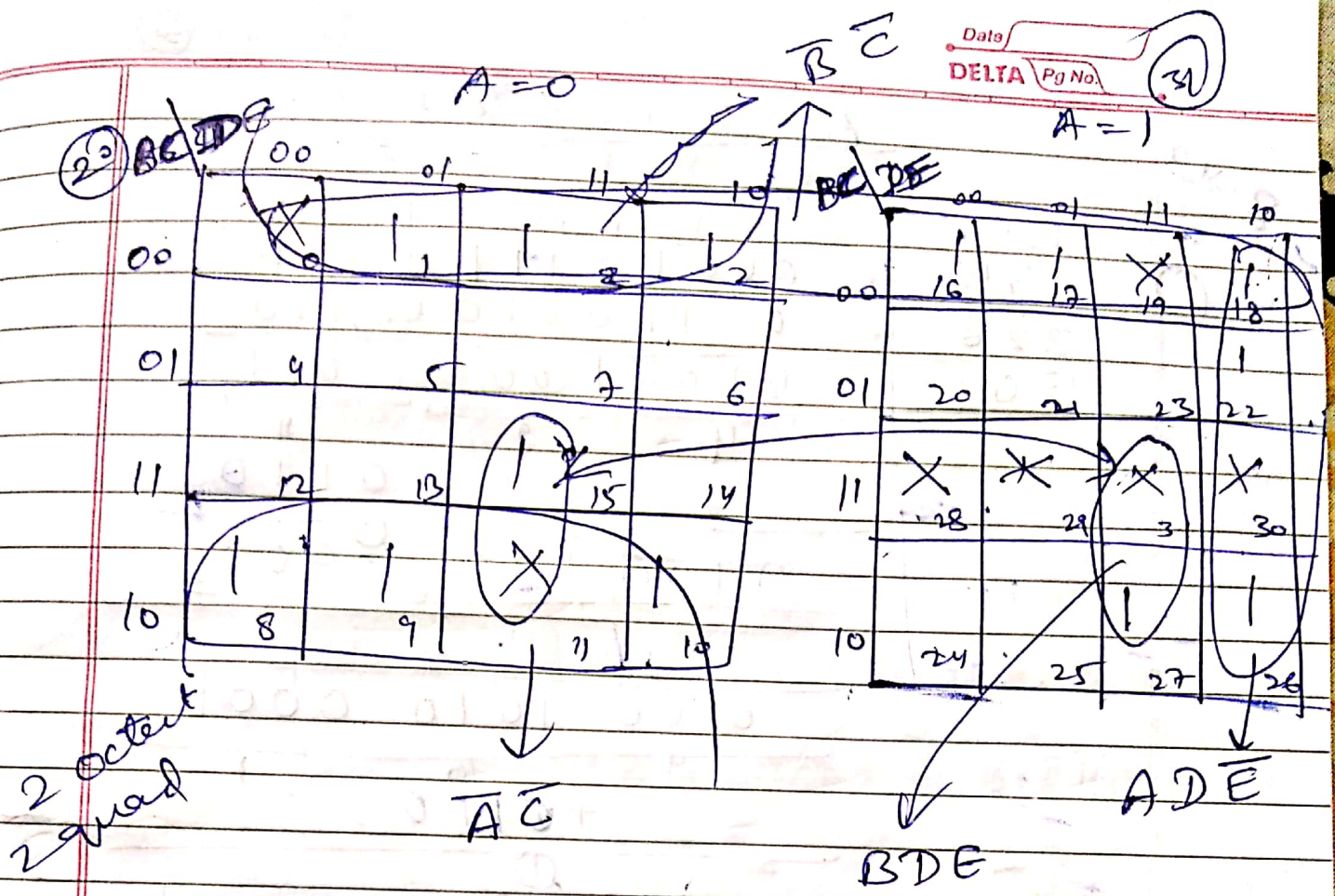
A	B	C	B+C	A(B+C)	Y = A(B+C)+A
0	0	0	0	0	0
0	0	1	1	0	0
0	1	0	1	0	0
0	1	1	1	0	0
1	0	0	0	0	1
1	0	1	1	1	1
1	1	0	1	1	1
1	1	1	1	1	1

(b) $Y = A + B + AB$.

A	B	AB	A+B	Y = A+B+AB
0	0	0	0	0
0	1	0	1	1
1	0	0	1	1
1	1	1	1	1

(c) $Y = AB + A(B+C) + A + AC$.

A	B	C	AB	A(B+C)	AC	AB + A(B+C) + AC
0	0	0	0	0	0	0
0	0	1	0	0	0	0
0	1	0	0	0	0	0
0	1	1	0	0	0	0
1	0	0	0	0	0	1
1	0	1	0	1	1	1
1	1	0	1	1	0	1
1	1	1	1	1	1	1



$$\bar{A}\bar{C} + \bar{B}\bar{C} + BDE + A\bar{D}\bar{E}$$