Name : Rafidul Islam

ID : 1912152642

Section: 6

Page no-1

$$16 675$$
 $16 92 - 43$
 $16 2 - A$
 $0 - 2$

5	0.28
4	0.48
7	0.68
A	0.88
E	0.08
	5 4 7 A E

$$= \frac{111}{7} \underbrace{001}_{7} \underbrace{101}_{5} \underbrace{010}_{2} = (7152)_{8}$$

$$= 1110 0110 = (E6A)16$$

$$= 1 \times 2^{43} + 1 \times 2^{10} + 1 \times 2^{9} + 0 \times 2^{8} + 0 \times 2^{7} + 1 \times 2^{6} + 1 \times 2^{5} + 0 \times 2^{9} + 1 \times 2^{9} + 0 \times 2^{9} +$$

(c)

+ 90 A + 8A + 9A -

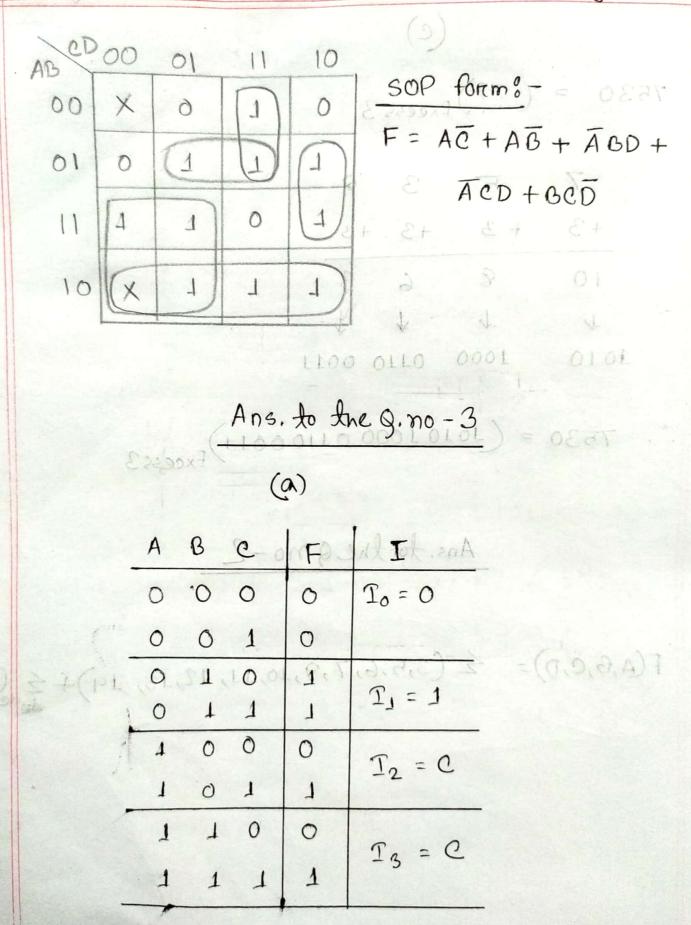
Ans. to the g.mo-2

0 0 0 0

 $F(A,B,C,D) = \{ (3,5,6,7,9,10,11,12,13,14) + \{ (0,8) \}$

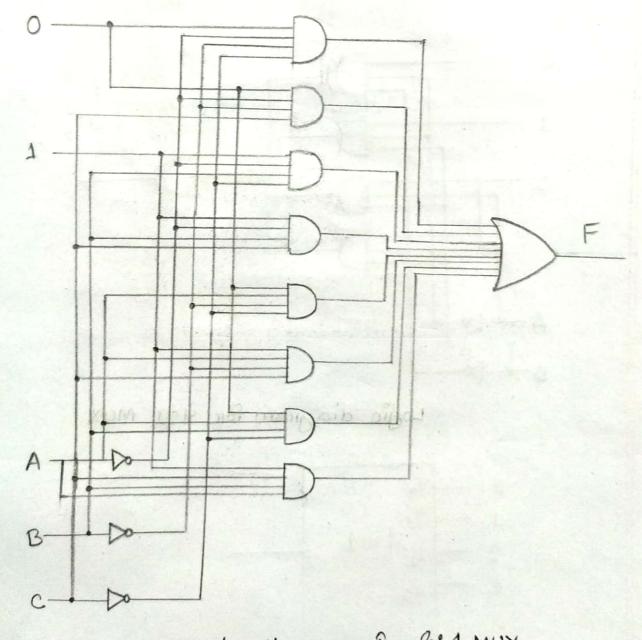
0 0 0 1

Lioi



(b)

 $I_0 = 0$, $I_1 = 0$, $I_2 = 1$, $I_3 = 1$, $I_4 = 0$, $I_5 = 1$, $I_6 = 0$, $I_7 = 1$, $S_2 = A$, $S_1 = B$, $S_0 = C$ [Forom (a)]



Logic diagram for 8:1 MUX

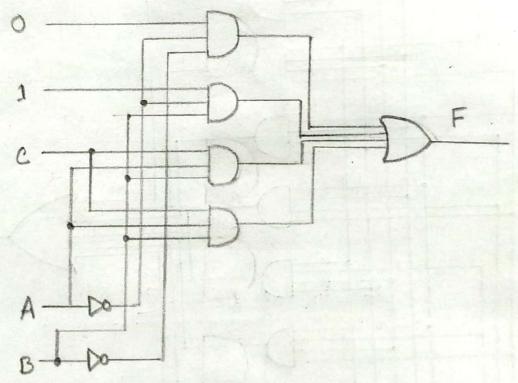
Page no - 6 1 - om & old of early (1) 675.3300)10 = To TI 12 8×1 13 Ty 15 To Ty

$$(C)$$

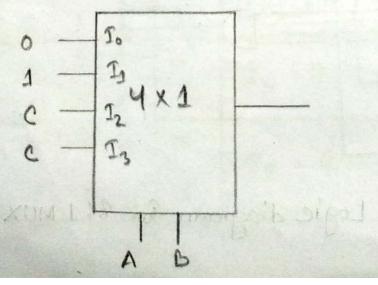
$$T_0 = 0, T_1 = 1, T_2 = C, T_3 = C \quad [From (a)]$$

$$S_1 = A, S_0 = B$$

HEON SUNT



Logic diagram for 481 MUX



Ans. to the Q. no-4

(a) TH + PKW + EN + SPX - 7

$$F = xyz + wy + wxy + xy$$

$$0111 1100 1100 0100$$

$$1111 1101 1101 0101$$

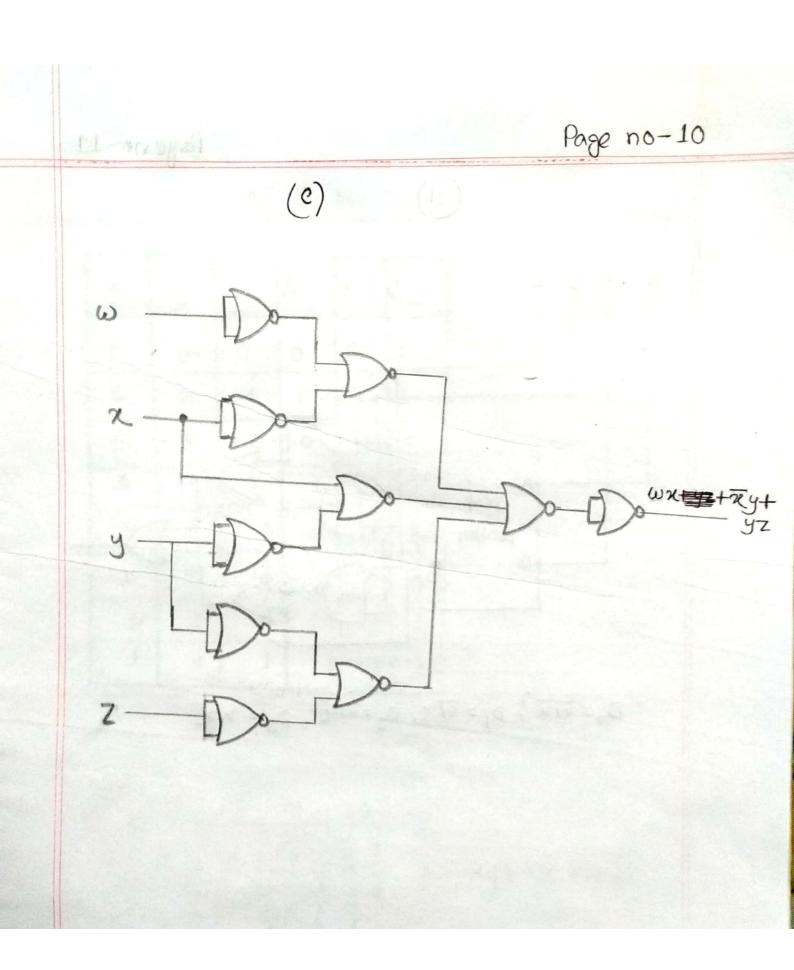
$$1110 0110$$

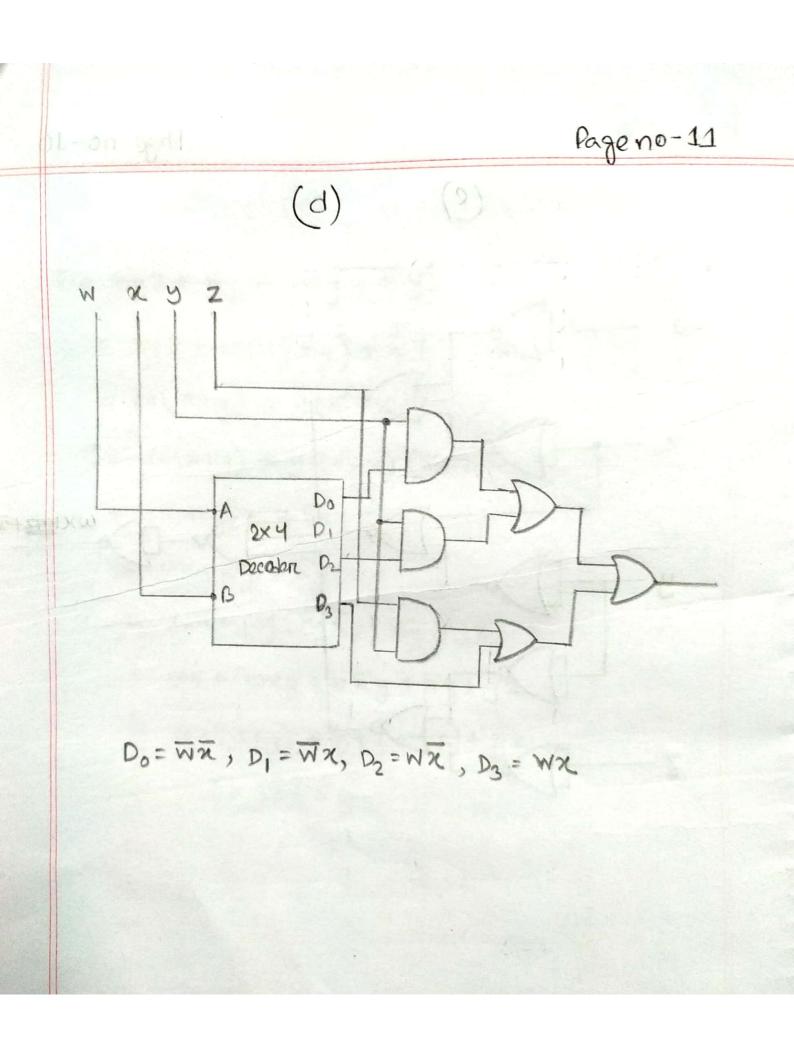
W	X	YIM	EZE	F
0	0	2 hO+ hy	+ 0 (0 +)	0
0	0 50+	NT TO T TO STAN) pc1 + 250	0
0		+ UKWH		
0	0	1	1	1
0	-31+(1	(co +	(6+1°) xe	0
0	1	OK	ZETIM	0
0	1	1	0	0
0	1	1	1	1
1	0	0	0	0
1	0	0	1	0
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1 1	1 1	1 1	0	1/1

=
$$xyz + \omega(n\bar{y} + y) + \bar{n}g^{\prime\prime} + b^{\prime\prime} + \bar{s}b^{\prime\prime}$$

$$= \omega(n+y) + y(\overline{n}'+xz)$$

=
$$\omega(n+y) + y(\overline{n}+u)(\overline{n}+z)$$

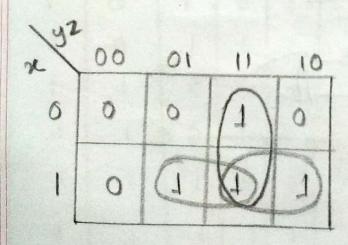




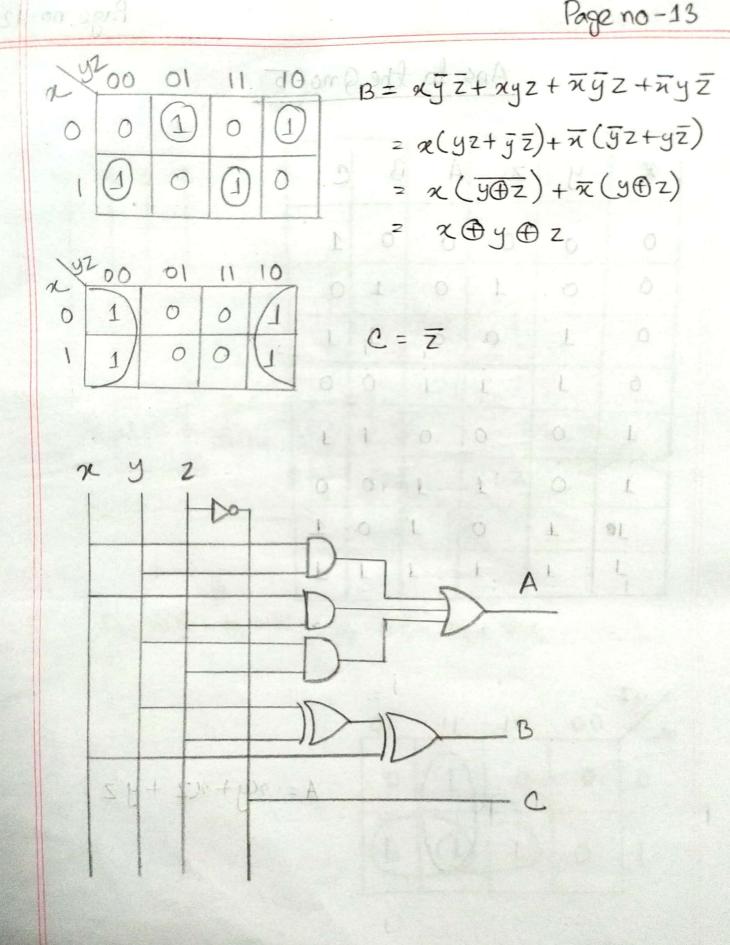
Ans. to the g.no-5

					Commence and the second second
x	4	Z	A	ß	C
0	0	0	0	0	1
6	0	1	0	1	0
0	1	0	0	1	1
6	ر	1	1	0	0
1	0	0	0	1	1
1	0	1	1	0	0
10	1	0	1	0	1
1	1	1	1	1	1

targenor 13



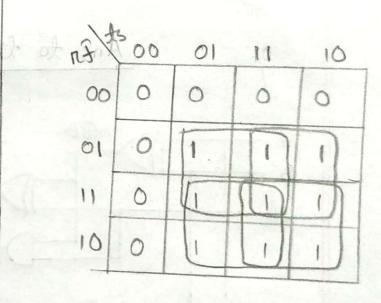
A = xy+ xz + yz



Ans. to the g. no-6

r	t	大	S	8N
0	0	0	0	0
0	0	0	Ja.	0
0	0	Ī	0	0
0	0	t	1	
0	ſ	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	-	1	1
1	0	0	0	0
1	0	0	10	1
1	0	1	0	10
1	0	1		1
1	i	0	0	0
1	t	0	ı	1
V	1	1	0	1
1	1	1	1	1

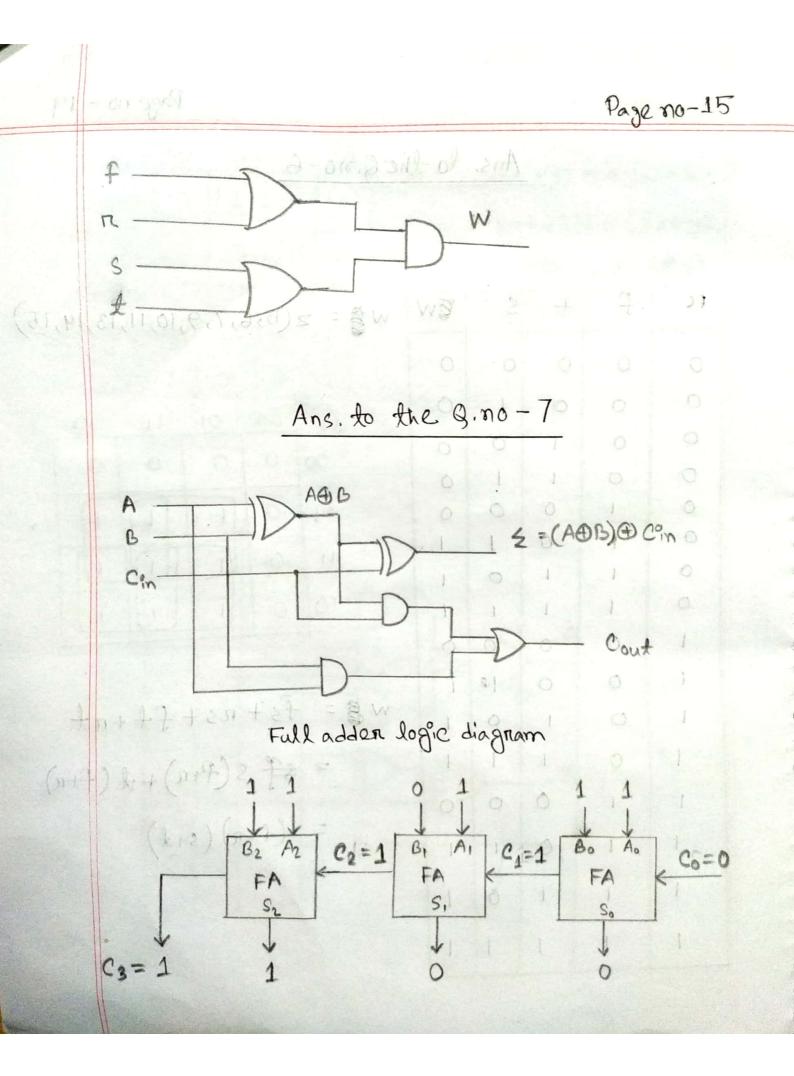
tage no-1t



$$w = fs + rs + fl + rt$$

$$= sf s(f+r) + l(f+r)$$

$$= (f+r)(s+l)$$



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