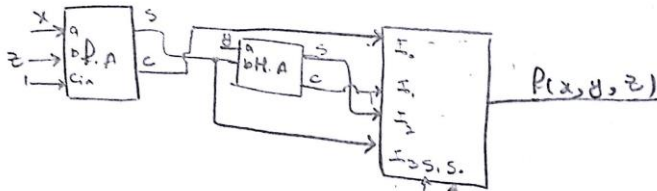


## بسمه تعالی

تمرین سری نهم

تمرین سری نهم



$$sum_{PA} = a \oplus b \oplus c = a \bar{b} \bar{c} + a b c + \bar{a} \bar{b} c + \bar{a} b \bar{c} = xz + \bar{x}\bar{z}$$

$$carry_{PA} = ac + bc + ab = x + z + xz = x + z$$

$$sum_{H.A} = a \oplus b = y \oplus (x \oplus z) = xy\bar{z} + \bar{x}y\bar{z} + \bar{x}\bar{y}z + x\bar{y}z \quad carry_{HA} = ab = y(x \oplus z)$$

$$I_0 = carry_{PA} = x(1) + z(1) + xz = x + z$$

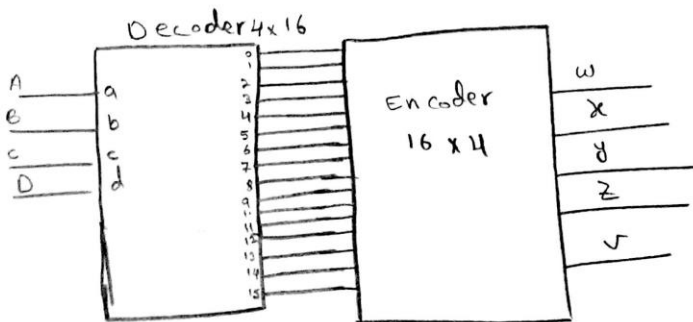
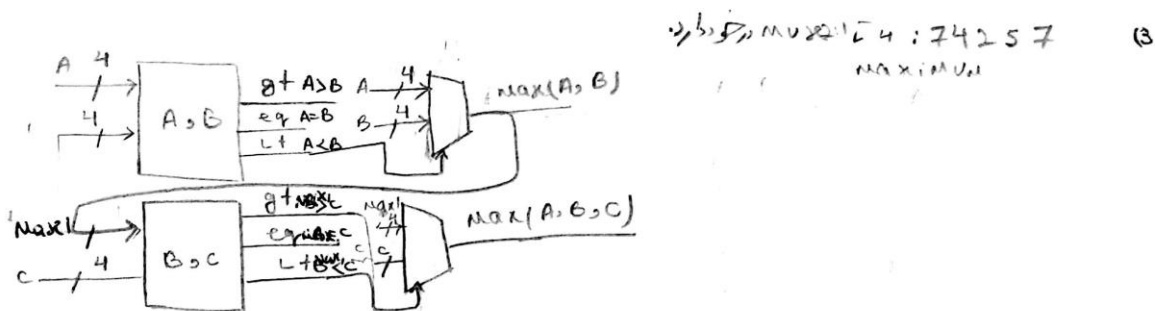
$$I_1 = carry_{H.A} = xy\bar{z} + \bar{x}y\bar{z}$$

$$I_2 = sum_{H.A} = xy\bar{z} + \bar{x}y\bar{z} + \bar{x}\bar{y}z + x\bar{y}z$$

$$I_3 = sum_{PA} = xz + \bar{x}\bar{z}$$

#	x	y	z	P
0	0	0	0	0
1	0	0	1	0
2	0	1	0	0
3	0	1	1	0
4	1	0	0	1
5	1	0	1	0
6	1	1	0	1
7	1	1	1	1

$$P(x, y, z) = \Sigma(4, 6, 7)$$

[illegible]

$$\omega = \sum (0, 1) \quad (4)$$

$$x = \mathbb{I}(2, 3, 4, 5)$$

$$g = \sum (2, 3, 6, 7)$$

$$Z = \Sigma(0, 2, 4, 6, 8)$$

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