Q1 Consider a 3-variable function  $f(x,y,z) = \xi(3,5,6)$ . It is minimized as x+yz. What are the don't cares used in this minimization.

02 Consider the following K-MAP.

02 00 01 11 10

01 1 1 1 1

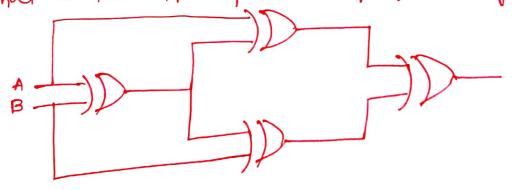
11 1 1 1

Find authe minimal expression denoted by the above K-MAP.

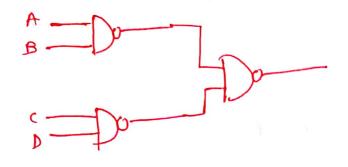
123 Let d, p, v) denotes don't cases. What will be their values in the minimization of sun of product exposurion.

| wxy  | 200 | 01 | Ц | 10 |
|------|-----|----|---|----|
| סט 🖯 | 0   | 0  | d | 0  |
| 01   | 0   | 0  | 1 | 1  |
| 11   | 1   | 1  | 1 | 1  |
| 10   | B   | ð  | 0 | 0  |
|      |     |    |   |    |

Q4 What is the expression represented by following combination.



Q5 What is the function deposemented by the following dealization. 3



Qb What is the value of of and B if the following expression is solved.

$$(4567)_{8}$$
  
+  $(2\beta 45)_{8}$   
 $(71\beta 4)_{8}$ 

at Implement half adder using universal logic (i.e. NAND and NOR).