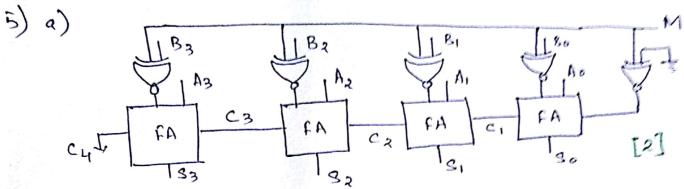
[1]

Diagream - [1]

b) Justification - [2]



 $M = 0 \rightarrow Subtraction$ = $1 \rightarrow Addition$.

Explanation - [1]

b) AB+ÂC+BCD=AB+ÂC.

ZHS
$$AB + AC + BCD$$

$$= AB + AC + BCD \cdot I$$

$$= AB + AC + BCD (A + A)$$

$$= AB + AC + ABCD + ABCD$$

$$= AB (I + CD) + AC (I + BD)$$

$$= AB + AC + CRHS$$

[27]