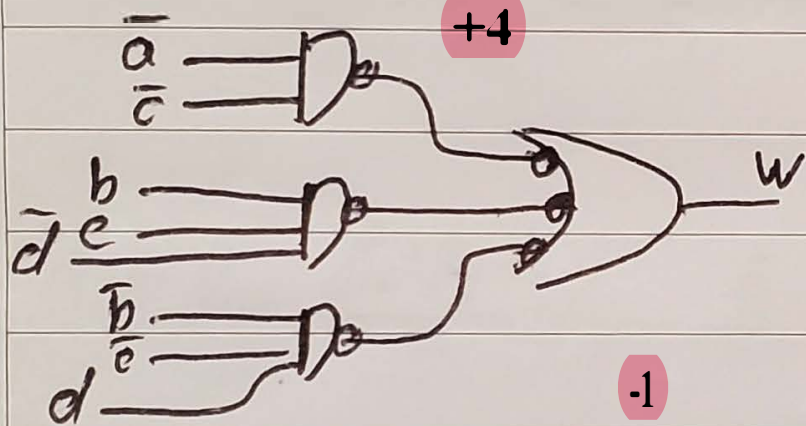


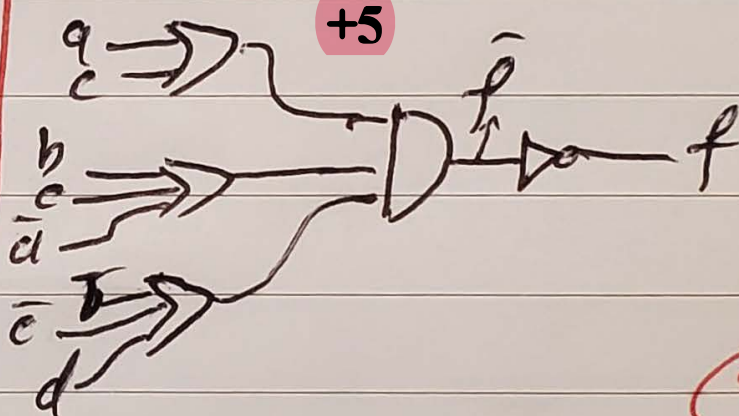
| <del>cd</del><br>ab | 00 | 01 | 11 | 10 |
|---------------------|----|----|----|----|
| 00                  | 1  | 1  | -  | 0  |
| 01                  | 1  | 1  | 0  | 1  |
| 11                  | 0  | 0  | -  | 1  |
| 10                  | 0  | 1  | 0  | 0  |

$$F_{\text{fahrezeit}} = \bar{a}\bar{c} + \bar{b}\bar{c}d + hcd \quad +4$$

$$= \bar{a}\bar{c} + (hc \oplus d)$$



$$\bar{f} = (a+c)(h+c+\bar{d})(\bar{h}+\bar{c}+d) \quad +5$$



SOP:  $\bar{a}\bar{b}\bar{c}d + \bar{a}\bar{b}\bar{c}d + \bar{a}b\bar{c}d + \bar{a}h\bar{c}d + \bar{a}b\bar{c}d + ab\bar{c}d + ab\bar{c}d$

TOSE-E

|          |                 |
|----------|-----------------|
| ✓ 0 0000 | ✓ 000 - (0,1) 1 |
| ✓ 1 0001 | ✓ 0-00 (0,1) 1  |
| ✓ 2 0100 | 00-1 (1,1) 1 ✓  |
| ✓ 3 0011 | ✓ 0-01 (1,0) 1  |
| ✓ 4 0101 | -001 (1,1) 1 ✓  |
| ✓ 5 0110 | ✓ 010 - (1,0) 1 |
| ✓ 6 1001 | 01-0 (1,1) 1 ✓  |
| ✓ 7 1110 | -110 (1,1) 1 ✓  |
| ✓ 8 1111 | 111 - (1,1) 1 ✓ |

(0,1,1,0) (1,1) ✓  
~~(0,1,1,0) (1,1)~~  
~~(1,1,1,0) (1,1)~~  
~~(1,1,1,1) (1,1)~~

+8

PI:  $\bar{a}\bar{c}$  ✓  $\bar{a}\bar{b}d$  ✓  $\bar{b}\bar{c}d$  ✓  $\bar{a}b\bar{c}$  ✓  $b\bar{c}d$  ✓  $abc$  ✓

+6

|                   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------------|---|---|---|---|---|---|---|---|---|---|----|
| $\bar{a}\bar{c}$  | ✓ | ✓ |   | ✓ | ✓ |   |   |   |   |   |    |
| $\bar{a}b\bar{c}$ |   | ✓ | ✓ |   |   |   |   |   |   |   |    |
| $\bar{b}\bar{c}d$ |   | ✓ |   |   |   |   |   | ✓ |   |   |    |
| $\bar{a}b\bar{c}$ |   |   |   | ✓ |   | ✓ |   |   |   |   |    |
| $b\bar{c}d$       |   |   |   |   | ✓ |   |   | ✓ |   |   |    |
| $abc$             |   |   |   |   |   |   | ✓ |   | ✓ |   | ✓  |
|                   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  |

EPI:

$\bar{a}\bar{c}$   
 $\bar{a}b\bar{c}$   
 $\bar{b}\bar{c}d$   
 $abc$

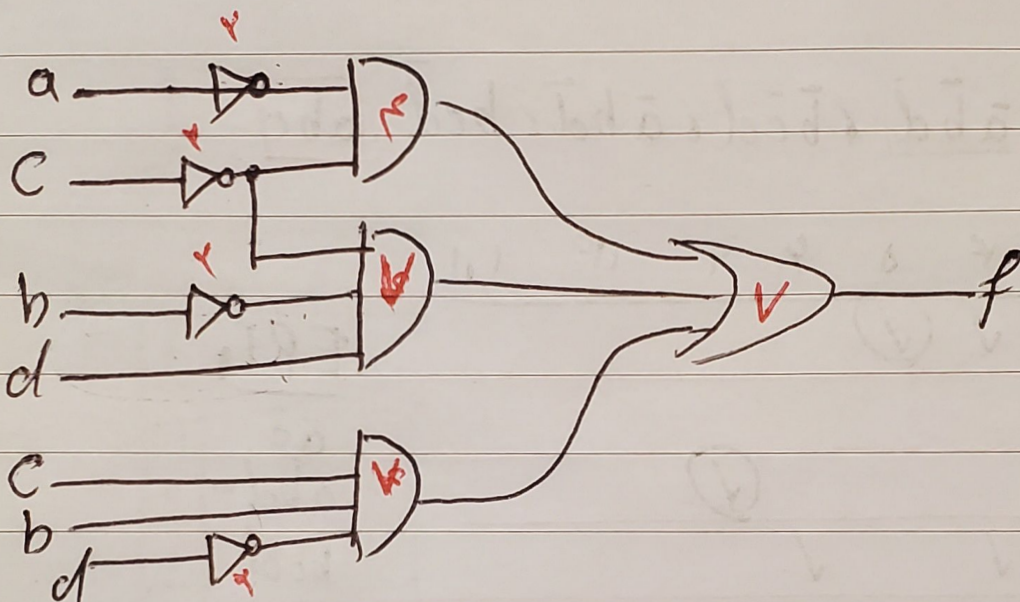
+5

D.  $\bar{a}\bar{c}$ ,  $\bar{b}\bar{c}d$ ,  $b\bar{c}d$

②

-1 for do not write  
PIs




$$h = 0000 \rightarrow 0100 \Rightarrow x^2 \text{ ist } \neq 0000 \rightarrow 0010 \rightarrow x^4$$

-12

۱۹۴۴ دیر ترم اول امتحان