Quiz #2

No books, no notes
no electronics except for clicker
Question #1: 2min

Canonical sum of products representation of f is:
A. $f(a,b,c) = \sum m(2,3,5,7)$
B. $f(a,b,c) = \sum m(2,5) + DC(3,7)$
C. $f(a,b,c) = \sum m(0,1,4,6) + DC(3,7)$
D. $f(a,b,c) = \sum m(0,1,4,6)$
E. None of the above

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Question #2: 2min

F(a,b,c) is shown in K-map below. Which of the following are true:

A. \( F(a,b,c) = \sum m(1,2,5) + DC(6) \)
B. \( F'(a,b,c) = \Pi M(1,2,5) + DC(6) \)
C. All of the above
D. None of the above
Question #3: 3min

F(a,b,c) is shown in K-map below. Which of the following are essential primes of F:

A. a’b’
B. ac’
C. b’c
D. All of the above
E. None of the above

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Question #4: 3min

If \( F(x,y,z) = xy' + yz \), what is \( F' \) ?

A. \( F'(x,y,z) = \Sigma m(0,1,2,6) \)

B. \( F'(x,y,z) = \Pi M(3,4,5,7) \)

C. All of the above

D. None of the above
Question #5: 4min

Given $F(x,y,z) = \sum m(0,1,4,5)$, what is the minimum implementation of $F'$?

A. $xz'+yz$
B. $y'$
C. $y$
D. $xz+yz$
E. None of the above