Quiz #2

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

What is the inverse of $F = (ab) + (cd)'$

A. $abcd'$
B. $(ab) + (c+d)$
C. $(a'+b')(c'+d')'$
D. $(a'+b')(c'+d)'$
E. None of the above
Question #2: 2min

Product of sums representation for F is:
A. $\sum m(1-3,5-7)$
B. $\Pi M(0,4)$
C. $(A + B + C)(A^\prime+B+C)$
D. Option B. and Option C.
E. None of the above
Question #3: 3min

Which option below gives the same output as:

\[ F = ((A'+B')(B'+C')(A'+C))' \]

A. BC+AC'
B. AB+AC'
C. AB+BC
D. A'B'+A'C
E. None of the above
Question #4: 3min

How many gates are required to implement the following Boolean expression after simplification?

\[ F = (AB)'(A'+B)(B'+B) \]

A. 0
B. 1
C. 2
D. 3
E. 4
Question #5: 4min

What is the minimum implementation of F’ if F(A,B,C) = \( \sum m(0,4) \)?

A. A’B’C’+B
B. B + C
C. B’C’
D. B’C’+BC
E. None of the above