Practice Quiz 7

The ispLever-Generated Reports below apply to the questions on this quiz:

CHIP REPORT:				REDUCED EQUATION REPORT:							
<pre>X = B&D&!A&C # !B&!D&!A&C</pre>			P-Terms 4/4 2/4	Fan-in 4	Fan-out 1	Type Pin Din	Name X	e (attribut	:es) 		
+\ /+			3/4	4	T	Pin	Y				
	\	/		========							
A	1	24	Vcc	7/8	Be	st P-Term	Total	.: 7	1 SDLEVER	operato	ore.
в	2	23	Y	Total Pins: 6							, <u>, , , , , , , , , , , , , , , , , , </u>
C	3	22				Total	Nodes	s: 0	AND - &	OR - #	Ŧ
D	4	21		Average P-Term/Output: 3 NOT - ! XOR - \$ Positive-Polarity Equations:							\$
	5	20									
	6	19									
	7	18									
	8 17		X = !B&!D&A&!C # B&D&A&!C # !B&!D&!A&C # B&D&!A&C								
	9	16		Y = B&D # !A&!C # A&C							
	10	15									
	11	14	x	Reverse-Po	larity E	quations:					
GND	12	13		IX = BcID # IBcD # IAclC # AcC.							
ll				$IY = ID_{A}A_{C} # IB_{A}A_{C} # ID_{A}A_{C} # IB_{A}A_{C};$							

- 1. The fitter program chose the following form(s) of the reduced equations to burn into the PLD:
 - (A) the positive polarity forms of both X and Y
 - $(B) \ \ \, \text{the reverse polarity forms of both X and Y} \\$
 - (C) the positive polarity form of X and the reverse polarity form of Y
 - $(D) \ \ \, \mbox{the reverse polarity form of X and the positive polarity form of Y }$
 - (E) none of the above
- 2. The **total number of P terms** used by this Verilog program is: (A) 3 (B) 4 (C) 7 (D) 8 (E) none of these
- 3. A possible Verilog source form of the equation for X is:

(A) $X = (B ^ D) \& (A ^ C);$

- (B) $X = (B ^ D) | (A ~ ^ C);$
- (C) $X = (B ~^ D) \& (A ^ C);$
- (D) $X = (B ~^ D) | (A ^ C);$
- (E) none of the above
- 4. A possible Verilog source form of the equation for Y is:
 - (A) $Y = (A ^ C) | (B & D);$
 - (B) $Y = (A \sim C) | (B \& D);$
 - (C) Y = (~A ^ ~C) | (B & D);
 - (D) Y = (A ~^ C) & (B | D);
 - $(E) \quad \text{none of the above} \quad$
- The order in which dataflow equations appear in Verilog program does <u>not</u> matter.
 (A) true
 (B) false