Quiz 9 – to be finished in 15 minutes

Student Name:

Derive a Boolean equation.

AB	~A~I	2	~AB		AB	A~B	
	AAI	,	~AD		Ab	A~B	
CD ~C~D	1		1			1	
~CD	1			'		1	
CD	1					1	
CD	1		1		1	1	
C~D	1		1		1	1	

$$F = \sim B + C + \sim A \sim D$$

The equation can also be obtained using the following table

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AB	~A~B	~AB	AB	A~B				
CD ~C~D								
~C~D	1	1	0	1				
~CD	1	0	0	1				
CD	1	1	1	1				
C~D	1	1	1	1				

$$\sim$$
F = AB \sim C + B \sim CD = B \sim C(A+D)
F = \sim (B \sim C(A+D)) = \sim B + C + \sim A \sim D