 CDA3201C Intro. to 	• Logic Design •	V.P. Nelson, •
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Dr. Bassem Al-Halabi, S&E362 Septe			Septer	mber 26, 2000	
Nam	e:		Grade:	/10	
[2]	1)	Simplify the following function using the laws of Boolean algebra $\mathbf{F} = \mathbf{A} \overline{\mathbf{B}} \mathbf{C} + \mathbf{A} \overline{\mathbf{B}} \overline{\mathbf{C}} \mathbf{D} + \overline{\mathbf{B}} \mathbf{D} \mathbf{E} + \overline{\mathbf{B}} \mathbf{D} \overline{\mathbf{E}}$ F=			
[4]	2)	For the following given function, find the SOP and POS forms.			
		$F = A B (C E + B \overline{D})$ $F (SOP) = _$ $F (POS) = _$			

[4] 3) Write the Boolean Expression for function Z as defined by the following Truth Table. Implement function Z using a NOT-AND-OR network. (Please, use straight lines for connections. Use shaded areas to neatly draw your gates.)

=_____

	ABC	Z			
	000	1	φ φ φ		
	001	0			
	010	1			
	011	1			
	100	0			
	101	0			
	110	1			
	111	1			
Z (from Table) =					
Z (simplified) =					