Digital Electronics and Computer Organization: Quiz 1

Attempt all the questions.

Note: There is no negative marking.

Control Bus is

- (●) Unidirectional
- ( ) Bidirectional
- ( ) Quasi Bidirectional
- ( ) None of these

Clear selection

Intel 8085 does not have

- ( ) Accumulator
- (●) Index Register
- ( ) Program Counter
- ( ) Stack Pointer

Clear selection

Motorola 6800 is

- (●) 8 bit microprocessor
- ( ) 16 bit microprocessor
- ( ) 4 bit microprocessor
- ( ) 24 bit microprocessor

Clear selection

If x=0 in the logic equation, [x+z(y+(z+x'y))][y'+x'(z+y)]=0 then

- ( ) z=0
- ( ) z=y
- ( ) z=1
- (●) z=y'
- ( ) None of these

Clear selection

Binary No. 1100111111 is equivalent to

- (●) 33F
- ( ) 443
- ( ) 43F
- ( ) None of these

Clear selection

Simplify the Boolean function F(B,C,D)=B.C+B'.D+C'.D

- ○ BC+B'D
- ○ BC'+D
- ◉ B'C+D
- ○ BC+D

Clear selection

F(A, B, C, D)=Σm(0,1,3,4,5,6,9,10,11,12,14,15)+Σd(2,7,8). Find the minimized boolean expression.

- ○ A'+B+C+D
- ◉ A'+B'+C+D'
- ○ A+B'+C+D'
- ○ A'+B'+C'+D'
- ○ None of these

Clear selection

F(A, B, C, D)=Σm(0,1,4,6,7,8,10,14,15). Identify the number of prime implicants and essential prime implicants for the function.

- ○ 7, 2
- ○ 6, 2
- ◉ 7, 1
- ○ 6, 1

Clear selection

if function F=Σm(0,1,2,3) is implemented using SOP form, the resultant boolean function would be

- ○ A+B
- ◉ 1
- ○ A+B'
- ○ AB

Clear selection

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