

Quiz 6 Results for Jacob Watts

Correct answers are no longer available.

Score for this quiz: 18 out of 18  
Submitted Feb 2 at 9:55pm  
This attempt took 3,058 minutes.

Question 1

6 / 6 pts

Find the CY, AC and OV flags for each of the following code fragments. Assume CY is initially 1:

(a)

MOV A,#0F3H  
ADD A,#19

CY = [ Select ] , AC = [ Select ] and OV = [ Select ]

(b)

MOV A,#0B9H  
ADD A,#98H

CY = [ Select ] , AC = [ Select ] and OV = [ Select ]

(c)

MOV A,#5BH  
ADDC A,#14H

CY = [ Select ] , AC = [ Select ] and OV = [ Select ]

(d)

MOV A,#59H  
ADDC A,#35H

CY = [ Select ] , AC = [ Select ] and OV = [ Select ]

Answer 1:

1

Answer 2:

0

Answer 3:

0

Answer 4:

1

Answer 5:

1

Answer 6:

1

Answer 7:

0

Answer 8:

1

Answer 9:

0

Answer 10:

0

Answer 11:

0

Answer 12:

1

Question 2

2 / 2 pts

Find the value of the accumulator and CY flag after each of the following code fragments. Give your answer for the accumulator in hexadecimal with no leading zeros or 'H' suffix.

(a)

MOV A,#79H

ADD A,#19H

DA A

ACC =  , CY =

(b)

MOV A,#57H

ADD A,#76H

DA A

ACC =  , CY =

Answer 1:

98

Answer 2:

0

Answer 3:

33

Answer 4:

1

### Question 3

2 / 2 pts

The 8051 multiply instruction puts the most significant byte in register B and the least significant byte in register A .

Answer 1:

B

Answer 2:

A

### Question 4

2 / 2 pts

The 8051 divide instruction puts the quotient in register  and the remainder in register

.

Answer 1:

A

Answer 2:

B

### Question 5

3 / 3 pts

Assume A = 3CH and R1 = 96H prior to execution of each of the instructions below. Find the value of the accumulator after the instruction has executed. Give your answer in hexadecimal without leading zeros or the 'H' suffix.

(a) ANL A,R1; Accumulator =

(b) ORL A,R1; Accumulator =

(b) XRL A,R1; Accumulator =

Answer 1:

14

Answer 2:

BE

Answer 3:

AA

### Question 6

1 / 1 pts

Assume A = 3CH and R1 = 96H prior to execution of each of the instructions below. Give the value of the CY flag after each instruction is executed and state whether or not the jump will be taken.

(a) CJNE A,#60,foo; CY =  , jump is

(b) CJNE A, #100,foo; CY = 1 , jump is

(c) CJNE R1,#100,foo; CY =  , jump is taken

Answer 1:

0

Answer 2:

not taken

Answer 3:

1

Answer 4:

taken

Answer 5:

0

Answer 6:

taken

### Question 7

2 / 2 pts

Find the contents of the accumulator after each of the following code fragments. Express your answer in hexadecimal with no leading zeros or 'H' suffix.

(a)

MOV A,#93H

SWAP A

RR A

Accumulator =

(b)

MOV A,#34H

SETB CY

RLC A

RLC A

Accumulator =

Answer 1:

9C

Answer 2:

D2

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