Winter_25_Quiz_6 - Results



Attempt 1 of 1

Written Mar 4, 2025 7:38 PM - Mar 4, 2025 7:58 PM

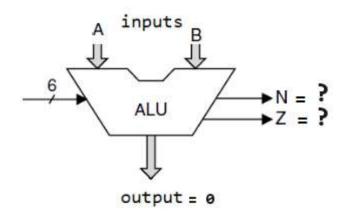
You successfully submitted your quiz.

Attempt Score 14 / 18 - 77.78 %

Overall Grade (Highest Attempt) 14 / 18 - 77.78 %

Question 1

According to the following image:



$$N = 0, Z = 1$$
 $N = 0, Z = 0$

$$\bigcirc$$
 N = 0, Z = 0

$$\cap$$
 N = 1, Z = 0

$$N = 1, Z = 1$$

Question 2

A program consists of 5 floating point instructions and 10 integer instructions. Floating point instructions take 6 cycles and integer instructions take 3 cycles each. Assuming that the processor has a clock rate of 1 KHz, obtain:

- a) the average cycles per instruction
- b) the execution time in msec

```
a) total instructuions / total cycles (5x6) + (10x3) / (6 + 3) = 6.66 b) ct = 1/cr ct = 1/1000 ct = 0.001 execution time = IC x CT x CR ET = 6.66 \times 0.001hz ET = 4000ns ET = execution time = IC x CT x CR IC x CT = 60 \times 1000 \times
```

The correct answer is not displayed for Written Response type questions.

▼ Hide question 2 feedback

Feedback

$$(5*6+10*3)/(15)=4$$

 $60*1/1000 s = 1000*(60*1/1000) ms = 60 msec$

Question 3

What does the data path cycle define in a computer system?

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Question 7

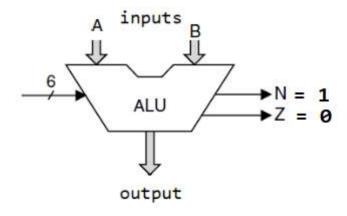
According to the following image, the machine code is ----- bits.

AX=0000 BX	(=0000	CX=0000	DX=0000	SP=FFEE	BP=0000	SI=0000	D I =0000
DS=0A3E ES	=0A3E S	SS=0A3E	CS=0A3E	IP=0100	NV UP E	I PL NZ NA	A PO NC
0A3E:0100 B	8FF0F	MOV	AX,	, OFFF			

- **~**() 24
 - \bigcirc 12
 - \bigcirc 32
 - \bigcirc 20
 - \bigcirc 6
 - **16**
 - 8

Question 8

According to the following image:



- output = 0
- ✓ output<0
 - output>0

Done