You are taking "Exam" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam". **Show Less**

End My Exam 0:44:29

Part 1: ORA (10 Marks)

QUESTION 1

Assignment submissions will close soon. To receive a grade, first provide a response to the prompt, then complete the steps below the **Your Response** field.

Your Response due Aug 2, 2021 13:00 +06 (in 1 hour, 9 minutes) IN PROGRESS

Enter your response to the prompt. You can save your progress and return to complete your response at any time before the due date (Monday, Aug 2, 2021 13:00 +06). **After you submit your response, you cannot edit it.**

The prompt for this section

Question 1 (Marks: 3)

Suppose you have to execute the instruction `lw $s4,0x12345678`. This means you have to perform a read operation on memory address `0x12345678`. However, the given instruction is not following a valid format.

Now write a MIPS code that can perform the same load operation as indicated in this question but avoiding the wrong instruction format.

Your response (required)

Enter your response to the prompt above.

Save your progress

THIS RESPONSE HAS NOT BEEN SAVED.

You may continue to work on your response until you submit it.

Submit your response and move to the next step

Staff Grade NOT AVAILABLE

Your Grade: Not Started

QUESTION 2

Assignment submissions will close soon. To receive a grade, first provide a response to the prompt, then

complete the steps below the **Your Response** field.

Your Response due Aug 2, 2021 13:00 +06 (in 1 hour, 9 minutes) IN PROGRESS

Enter your response to the prompt. You can save your progress and return to complete your response at any time before the due date (Monday, Aug 2, 2021 13:00 +06). **After you submit your response, you cannot edit it.**

The prompt for this section

Question 2 (Marks: 3)

Consider the below instructions and **write the datapath components** that each of these instructions use for completing the instruction:

```
1. AND $t0, $t1, $t2
2. SW $t1, 44 ($t2)
3. BNE $t1,$t2, ELSE
```

Your response (required)

Enter your response to the prompt above.

Save your progress

THIS RESPONSE HAS NOT BEEN SAVED.

You may continue to work on your response until you submit it.

Submit your response and move to the next step

Staff Grade NOT AVAILABLE

Your Grade: Not Started

QUESTION 3

Assignment submissions will close soon. To receive a grade, first provide a response to the prompt, then complete the steps below the **Your Response** field.

Your Response due Aug 2, 2021 13:00 +06 (in 1 hour, 9 minutes) IN PROGRESS

Enter your response to the prompt. You can save your progress and return to complete your response at any time before the due date (Monday, Aug 2, 2021 13:00 +06). **After you submit your response, you cannot edit it.**

The prompt for this section

Question 3 (Marks: 4)

For this problem consider your 8 digits valid BRACU ID as a hexadecimal number. For example, if your BRACU ID is 01812278 then the hexadecimal input should be 01812278.

Now assume you have a 16-bit register where the MSB bit is reserved for representing sign, the next 5 bits are assigned for representing the exponent and the remaining bits are for representing fractions.

Now, take X = MSB 4 digits of your ID and Y= LSB 4 digits of your ID and perform X*Y [only take 5 digits after decimal point]. You must show all the steps in your calculation.

Your response (required)

Enter your response to the prompt above.

Save your progress

THIS RESPONSE HAS NOT BEEN SAVED.

You may continue to work on your response until you submit it.

Submit your response and move to the next step

Staff Grade NOT AVAILABLE

Your Grade: Not Started

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