

Computer Organization and Assembly Language

Quiz# 3, Spring 2025

Monday February 17, 2025

Name: _____

Roll Number: _____

Maximum Time Allowed: 10 minutes

Maximum Marks: 10

1. Write an RISC-V assembly code segment that performs the following tasks on an array of integers:

- (a) Calculate the sum of all elements in the array.
- (b) Store the sum in a specific memory location.

Requirements:

- Assume the array is stored in memory starting at address 0x1000.
- The array contains 10 elements, each of which is a 32-bit signed integer.
- Store the sum of the array elements at memory address 0x2000.