INFORMATION TECHNOLOGY UNIVERSITY, LAHORE, PAKISTAN

BS Computer and Software Engineering

Computer Organization and Assembly Language

Quiz# 3, Spring 2025

Monday Februrary 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 comprising of 50 elements (each of which is a 32-bit signed integer). The array is stored in memory starting at address 0x4000.

    (a) Find the maximum element in the array.

    (b) Find the array index where the maximum element is placed.

    (c) Store the maximum element and its position at addresses 0x5000 and 0x5004 in memory.