Department of Computer Science

Quiz 02 Spring 2025

Class: BCS-8B
Subject: Parallel and Distributed Computing
Total Time Allowed: 30-Minutes
Student Name: _____

Date: 19-June-2025
Instructor: Ehtisham Ul Haque
Max Marks: 10
Registration #_____

Q.1. Write **code** for the following questions. *[Marks 10]* *(CLO-3, C3)*

a) Write an OpenMP program that demonstrates the basic structure of an OpenMP parallel region. Include a print statement to indicate which thread is executing each iteration of the parallel region.

b) Write an OpenMP program that combines the "parallel for" directive and the "reduction" and "private" clause to parallelize a loop and perform a reduction operation. Provide an example scenario where this combination would be useful.

CamScanner