Parallel and Distributed Computing (6E / 6F) Quiz 04 (Spring 2022). Instructor: Dr. Syed M. Irteza		Name:
Date: 2022-05-23		Roll Number:
	Time Allowed: 10 mins	
1. When we discussed All-to-All Personalized Communication, we used as an example, and this form of communication can be called  a. Matrix transposition; total exchange b. Matrix multiplication; total exchange c. Matrix multiplication; all-to-all broadcast d. Prefix sum; all-to-all reduction		
<pre>2. The purpose of is to initialize MPI, whereas enables us to determine the number of processes within the domain specified.     a. MPI_Init(*argc, ***argv); MPI_Comm_rank(comm, *rank)     b. MPI_Init(*argc, ***argv); MPI_Comm_size(comm, *size)     c. MPI_Begin(); MPI_Comm_size(comm, *size)     d. MPI_Finalize(); MPI_Comm_size(comm, *size)</pre>		
<ol> <li>MPI is a standard librar architecture         <ul> <li>Socket programmer</li> <li>Multi-threading;</li> <li>Message passing</li> <li>Message passing</li> </ul> </li> </ol>	ming; distributed shared g; shared	suming a memory

- 4. MPI\_ANY\_SOURCE is an example of:
  - a. A wildcard argument for source
  - b. A wildcard argument for tag
  - c. A wildcard argument for destination
  - d. An argument that enforces we receive from a specific source
- 5. For the sorting algorithm we used with MPI, we modified BubbleSort such that:
  - a. Each process only compares with its right neighbor in each iteration
  - b. Each process only compares with its left neighbor in each iteration
  - c. Each process only compares with its left or right neighbor in each alternative iteration
  - d. Each process only compares with any randomly chosen pair process in each iteration
- 6. When we assume that MPI\_Send and MPI\_Recv are both blocking, what possible method can we use to save ourselves from deadlock, if each process has to send a message to its neighbor to the right?

[5m]