


Lab quiz (Introduction to Distributed & Parallel Computing)

202151188@iiitvadodara.ac.in [Switch account](#)

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* Indicates required question

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☒ Record 202151188@iiitvadodara.ac.in as the email to be included with my response

Which factor is crucial for ensuring the reliability and consistency of messages * in a distributed chat application?

- ☐ Latency
- ☒ Message acknowledgment and delivery confirmation
- ☐ Encryption algorithm used
- ☐ Bandwidth availability

Which statement about MPI processes is correct? *

- ☐ MPI processes execute in sequential order.
- ☐ MPI processes share a single memory space.
- ☐ MPI processes cannot communicate with each other.
- ☒ MPI processes have their own address spaces.

Which of these classes is used for creating a client for server-client operations? *

- ☐ serverClient.java
- ☒ Client.java
- ☐ AddClient.java
- ☐ ServerClient.java

In a distributed chat application, what is the purpose of a message broker? *

- ☐ To manage user authentication
- ☒ To route messages between different users or chat rooms
- ☐ To encrypt and decrypt messages
- ☐ To store chat history



What is the role of the "#pragma omp barrier" directive in OpenMP? *

- ☐ It controls the number of threads in a parallel region.
- ☐ It declares a critical section.
- ☐ It creates a parallel region.
- ☒ It waits for all threads to reach a specific point in code before continuing.

Which of the below programs creates some remote objects, makes references to these objects accessible, and waits for clients to invoke methods on these objects? *

- ☐ Concurrent
- ☒ Server
- ☐ Thread
- ☐ Client

Which type of parallelism does GPU computing primarily exploit? *

- ☐ Instruction Level Parallelism
- ☐ Pipeline Parallelism
- ☐ Task parallelism
- ☒ Data Parallelism

In RMI, what does the term "UnicastRemoteObject" refer to? *

- ☐ A local object that communicates with remote services
- ☒ A framework used for implementing remote interfaces
- ☐ A remote object that can be accessed by multiple clients simultaneously
- ☐ A remote object that can only be accessed by a single client at a time

In parallel matrix multiplication using MPI, how are matrices typically distributed among different processes? *

- ☐ Matrices are replicated across all processes.
- ☐ Only one process performs the multiplication.
- ☐ Each process receives a copy of the entire matrix.
- ☒ Rows or columns of matrices are divided among processes.

What is the basic purpose of file replication in a distributed system? *

- ☐ decrease complexity
- ☐ decrease cost
- ☒ increase reliability
- ☐ increase data.

Which AWS service provides scalable storage in the cloud? *

- ☐ Amazon RDS
- ☐ Amazon EBS
- ☐ Amazon EC2
- ☒ Amazon S3

Which method is used to bind a remote object with a name in the RMI registry? *

- ☒ bind()
- ☐ lookup()
- ☐ register()
- ☐ rebind()

Which strategy is used in distributed file systems to handle large file sizes efficiently? *

- ☐ File encryption
- ☐ File indexing
- ☐ File compression
- ☒ File segmentation

What is the default port number used by RMI registry? *

- ☐ 1101
- ☐ 1100
- ☒ 1099
- ☐ 1098



Cloud computing is a kind of abstraction which is based on the notion of combining physical resources. Which type of representation does it provide to users? *

- ☐ Real
- ☐ Cloud
- ☒ Virtual
- ☐ None of the above.

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