

# CS304 || Distributed Systems || Tutorial CE

u19cs012@coed.svnit.ac.in [Switch account](#)

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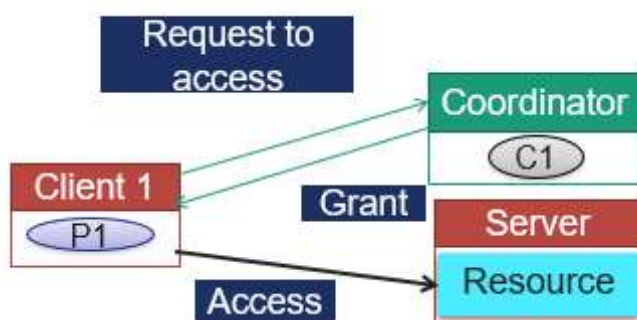
\* Required

## Questions

Which of the following are ways for content distribution? \*

- ☒ Propagate only updates notifications
- ☒ Transmit update data from one copy to another
- ☒ Propagate update operations to other replicas
- ☐ None of the mentioned

Which type of algorithm is given in below figure? \*



- ☐ Token-based Approaches
- ☒ Permission-based Approaches
- ☐ Election Algorithm
- ☐ None of the above



Which of the following the Distributed File systems ? \*

- ☐ The Sun network File system
- ☐ The Sprite file system
- ☐ Coda
- ☒ All of the above

If timestamp of two events are same, then the events are \*

- ☐ Non-concurrent
- ☒ concurrent
- ☐ Monotonic
- ☐ Non-Monotonic

Which type of bean will store information that may be needed a next time a specific client access the server? \*

- ☐ Entity bean
- ☐ Stateless session bean
- ☒ Stateful session bean
- ☐ Message driven bean



"The server fails to respond to a request". Which type of failure is this? \*

- ☐ Timing failure
- ☒ Omission failure
- ☐ Arbitrary failure
- ☐ Crash failure

Rolling back one process causes one or more other process to roll back is known as \_\_\_\_\_ \*

- ☒ Domino effect
- ☐ Lost message
- ☐ Problem of livelock
- ☐ Orphan process

\_\_\_\_\_ is a placeholder for a specific group of functions in Apache web server \*

- ☐ Module
- ☒ Hook
- ☐ Apache core
- ☐ None of the above



What is not a major reason for building Distributed System? \*

- ☐ Computation speed up
- ☐ Reliability
- ☒ Simplicity
- ☐ Resource sharing

Which of the following are process migration activities? \*

- ☒ Freezing the process on its source node and restarting it on its destination node
- ☒ Transfer of process's address space from source to its destination node
- ☒ Forwarding messages intended for the migrant process
- ☐ Handling communication between cooperating processes that have been separated as a result of process migration

In Distributed system, Transaction coordinator \*

- ☐ Starts the execution of transaction
- ☒ Breaks the transaction into number of sub-transactions
- ☒ Coordinates the termination of transaction



Match the following \*

A. Latency metrics	1. Measuring how well a CDN is doing
B. Spatial metrics	2. Measuring time for an action
C. Financial metrics	3. Measuring distance between nodes

☐ A-1, B-2, C-3

☒ A-2, B-3, C-1

☐ A-3, B-2, C-1

☐ A-2, B-1, C-3

The advantage of having cache in main memory are : \*

☒ Accessing is faster than local memory

☐ It competes with virtual memory system for physical memory space

☒ Single design is applicable to both client and servers

☒ Large files can be cached completely in main memory

Single coordinator approach has following disadvantages: \*

☒ Bottleneck

☒ Single point of failure

☒ Slow Response

☐ Deadlock

☐ Starvation



Which of the following is not a serial schedule? \*

BEGIN\_TRANSACTION  
x = 0;  
x = x + 1;  
END\_TRANSACTION

(a)

BEGIN\_TRANSACTION  
x = 0;  
x = x + 2;  
END\_TRANSACTION

(b)

BEGIN\_TRANSACTION  
x = 0;  
x = x + 3;  
END\_TRANSACTION

(c)

Schedule 1	x = 0; x = x + 1; x = 0; x = x + 2; x = 0; x = x + 3	?
Schedule 2	x = 0; x = 0; x = x + 1; x = x + 2; x = 0; x = x + 3;	?
Schedule 3	x = 0; x = 0; x = x + 1; x = 0; x = x + 2; x = x + 3;	?

(d)

- a) - c) Three transactions  $T_1$ ,  $T_2$ , and  $T_3$   
b) d) Possible schedules

- ☐ Schedule 1
- ☐ Schedule 2
- ☒ Schedule 3
- ☐ Schedule 2 and Schedule 3

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