CS304 || Distributed Systems || Assessment Test -Feb 2022(Div A)

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* Required

Questions

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If an algorithm can perform fruitless actions indefinitely with finite probability, the algorithm is said to be _____.

- (●) Unstable
- ( ) Stable
- ( ) None of the above

*

To avoid_____, _____from overloaded computers to computers that are likely to become idle shortly can be used.

- ( ) Anticipatory task transfers; lengthy unshared states
- (●) Lengthy unshared states; anticipatory task transfers
- ( ) None of the above

*

The functionality provided by a distributed shared object is implement by

- (●) Semantics sub object
- ( ) Communication sub object
- ( ) Control sub object
- ( ) Replication sub object

*

At low system loads, the _____is more successful in finding under-loaded nodes. At high system loads, the _____is more successful in finding overloaded nodes.

- (●) Sender-initiated component; receiver-initiated component
- ( ) Receiver-initiated component; sender-initiated component
- ( ) Receiver-initiated component; receiver-initiated component
- ( ) None of the above

*

Adaptive load distributing algorithms is the special class of dynamic algorithm: they adapt their activities by dynamically changing the _____to suit the changing system state

- ( ) Whole algorithm
- ( ) Small part of the algorithm
- (●) Parameters of the algorithm
- ( ) None of the above

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If one site fails in distributed system

- (●) The remaining sites can continue operating
- ( ) all the sites will stop working
- ( ) directly connected sites will stop working
- ( ) All of the above

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Which statement is true about Object servers?

- ( ) Object servers are same as traditional servers
- ( ) Object servers are more powerful than traditional servers
- (●) Object servers do not provide a specific service
- ( ) All of the above

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Messages whose 'send' is done but 'receive' is undone due to rollback are called

- ( ) Orphan message
- ( ) Duplicate message
- (●) Lost message
- ( ) In- Transit message

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The capability of a system to adapt the increased service load is called

- ○ Tolerance
- ◉ Scalability
- ○ Capacity
- ○ None of the above

*

Distributed systems offer a tremendous processing capacity. however, in order to realize this tremendous computing capacity, and take full advantage of it, _____ are needed.

- ○ Hardware resource allocation schemes
- ◉ Good resource allocation schemes
- ○ Good software allocation schemes
- ○ None of the above

*

Choose failure that can occur in RPC systems

1. Client response to the server is lost
2. The server crashes before sending a request
3. Client request to the server is lost
4. The server crashes after receiving a request

- ○ 1 & 2
- ◉ 3 & 4
- ○ 1,2 & 4
- ○ 1 & 4

*

If the system under consideration never attains high loads, _____will give an improved average response time.

- ◉ Sender-initiated schedulers
- ○ Receiver-initiated schedulers
- ○ None of the above

Network fault, processor fault, Media Fault are examples of

- (●) Transient Faults
- ( ) Permanent Faults
- ( ) Intermittent Faults
- ( ) None of the above

Clear selection

*

Due to random arrival of tasks and their _____requirements, there is a good possibility that several computers are _____, while others are_____.

- ( ) Static CPU service time; idle or lightly loaded; heavily loaded
- ( ) Random CPU service time; idle or lightly loaded; heavily loaded
- (●) Random CPU service time; heavily loaded; idle or lightly loaded
- ( ) None of the Above

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In Symmetrically Initiated Algorithms of load balancing, on expiration of TooHigh timeout, if no Accept message is received, sender guesses that its estimate of the average system load is_____.

- ○ Too high
- ◉ Too low
- ○ Too big
- ○ None of the above

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Given are two statements
Statement 1 : Two - army problem : Processes are imperfect but communication is perfect
Statement 2 : Byzantine General problem : Processes are perfect but communication is imprefect
Choose the correct option
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- ○ Statement 1 is true and Statement 2 is false
- ○ Statement 1 is false and Statement 2 is true
- ○ Statement 1 and Statement 2 are true
- ◉ Statement 1 and Statement 2 are false

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Overhead incurred in task transfer should be compensated by the _____realized by the task

- ○ Reduction in the computation time
- ○ Reduction in the communication time
- ◉ Reduction in the response time
- ○ All of the above

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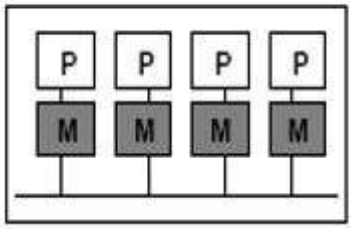
Which type of memory distribution is performing in given figure ;



- ○ Uniform memory access
- ◉ Nonuniform memory access
- ○ None of the above

*

_____ allows an interface to be converted into something that client expects

- ○ Server
- ◉ Adapter
- ○ Method
- ○ Object

In static load distributing algorithms: *

- ○ (i)Decision is hard wired in the algorithm using a priory knowledge of the system
- ○ (ii) They make no use of system state information (the loads at nodes)
- ○ (iii)Decision is soft wired in the algorithm using a priory knowledge of the system
- ◉ (iv)Both i & ii
- ○ (v) Both ii & iii

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