

CS304 || Distributed Systems || Class Test 2

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* Required

Untitled Section

_____ prescribes the layout of a database containing service descriptions that will allow Web service clients to browse for relevant services *

- ☐ Web browser
- ☐ Web service
- ☒ Universal Description, Discovery, and Integration
- ☒ Web Proxy

The values GET, POST, HEAD are specified in _____ of HTTP message *

- ☐ Entity body
- ☐ Status line
- ☒ Request line
- ☒ Header line



What are the characteristics of mutual exclusion using centralized approach? *

- ☐ one processor as coordinator which handles all requests
- ☐ it requires request,reply and release per critical section entry
- ☐ the method is free from starvation
- ☒ all of the mentioned

..... is responsible for maintaining concurrency in transaction *

- ☐ Transaction Manager
- ☐ Data Manager
- ☐ Scheduler
- ☒ All of the above

In which type of consistency shared data are made consistent when leaving critical region. *

- ☐ Weak consistency
- ☒ Release consistency
- ☒ Exit consistency
- ☐ All of the above



Distributed Snapshot is useful for *

- ☒ To ensure atomicity of Distributed System
- ☒ To record the global state of a distributed system
- ☒ To reflect consistent global state
- ☒ All of the above

Which of the following maintain the mount information *

- ☐ Servers
- ☐ Client
- ☐ None of the above
- ☒ Both servers and client

What are the wrong statements for token(with rings) passing approach? (i) One processor as coordinator which handles all requests (ii) No starvation if the ring is unidirectional (iii) There are many messages passed per section entered if few users want to get in section(iv) One processor as coordinator which handles all requests(v) Only one message/entry if everyone wants to get in *

- ☐ iv and iii
- ☒ i, ii and iv
- ☐ iii and v
- ☐ i only



Which type of consistency is followed in given figure. Write answer in CAPITAL LETTER. And do not add any space. *

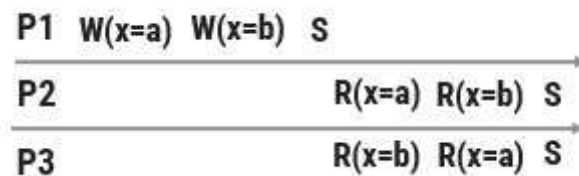


STRICT

A transaction can do read and write operation on a data item when it acquires

- ☐ read mode
- ☒ exclusive mode
- ☐ shared mode
- ☐ write mode

Is the given figure satisfying weak consistency? *



- ☒ Yes
- ☐ No
- ☐ May be
- ☐ Insufficient Information



In distributed file system, file name does not reveal the file's _____ *

- ☐ Both Local name and Physical storage location
- ☐ None of the above
- ☒ Physical storage location
- ☐ Local name

Which of following approaches is used to name files in distributed systems ? *

- ☐ Mount remote directories onto local directories
- ☐ Single global directory where all the files in system belong to a single name space
- ☐ Concatenate the hostname to the names of files that are stored on that Host
- ☒ All of the Above

The hardware of DS has two types *

- ☒ multiprocessor system,multicomputer system
- ☐ multiprocessor system,unicomputer system
- ☐ uniprocessorsystem,multicomputer system
- ☐ uniprocessor system,unicomputer system



Which of the following component of Web browser have code for displaying document *

- ☐ User interface
- ☐ Browser engine
- ☒ Both B and C
- ☐ Rendering engine

*

Choose the correct option

Statement 1: In write through policy, it takes advantage of cache and little information is lost

Statement 2: In delayed writing policy, it does not take advantage of cache and significant amount of data is lost

- ☐ Statement 1 is true and statement 2 is false
- ☐ Statement 1 is false and Statement 2 is True
- ☒ Both Statements are false
- ☐ Both Statements are true

consistency is that write operations by the same process are performed in the correct order everywhere. *

- ☐ weak
- ☐ strict
- ☐ Causal
- ☒ fifo



Let's consider a client to retrieve a website page containing 1 text file of 40KB, and 7 png images of 100KB per each and a 1 video of 200Mb. Which connection should be used for fast retrieval. *

- ☒ Persistent HTTP
- ☐ None of the above
- ☐ UDP connection
- ☐ Non Persistent HTTP

Assume transaction A holds a shared lock R. If transaction B also requests for a shared lock on R. *

- ☐ It will result in a deadlock situation
- ☐ It will immediately be rejected
- ☒ It will immediately be granted
- ☐ It will be granted as soon as it is released by A

Which of the following are clock synchronization algorithms? *

- ☒ Cristian's Algorithm
- ☒ Berkeley Algorithm
- ☐ Token Ring Algorithm
- ☐ Centralized Algorithm
- ☐ Distributed Algorithm

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