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Started on Tuesday, May 14, 2019, 8:38 PM

State Finished

Completed on Tuesday, May 14, 2019, 10:08 PM

Time taken 1 hour 30 mins

Points 22.00/30.00

Grade 73.33 out of 100.00

Question 1

Correct

1.00 points out of 1.00

In the context of networking, domain names are translated to IP addresses by a simple DHCP request.

Select one:

True

False

Question 2

Correct

1.00 points out of 1.00

In the context of operating system support, "a process may only access file data and attributes through system call interface" is an example of encapsulation.

Select one:



True



False

Question 3

Correct

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In the context of inter-process communication, binary data cannot be represented directly in XML (Extensible Markup Language), because

ι.υυ ρυπιε υυι somewhere the embedded binary data will include the representation of a of 1.00 special character such as '<' or '>'. Select one: True False Question 4 In the context of distributed systems, it is satisfactory to multicast all Correct requests to a group of servers as a way of achieving mobility transparency 1.00 points out for clients. of 1.00 Select one: True False Question 5 In the context of inter-process communication, services at different Correct locations must use different port identifiers to enable access from clients. 1.00 points out of 1.00 Select one: True False Question 6 Correct is not delayed if it uses synchronous message passing. 1.00 points out of 1.00 Select one:

In the context of operating system support, the sender of remote invocation

True

False

Question 7

Correct

In the context of distributed systems, the resource sharing occurs in not only data, but also hardware and software.

1.00 points out of 1.00

Select one:

True ✓
False

Question 8

Correct

1.00 points out of 1.00

In the context of networking, broadcasting is hardly feasible for large-scale network such as the Internet. It might just be possible for an intranet, but ought to be avoided for the reasons of overhead.

Select one:



False

Question 9

Incorrect

0.00 points out of 1.00

In the context of distributed systems, time synchronization requires RTTs to be repeatedly measured to reduce the latency.

Select one:



False

Question 10

Incorrect

0.00 points out of 1.00

In the context of networking, if a router does not find the network id portion of a destination address in its routing table, it dispatches the packet to a default address an adjacent gateway or router that is designated as responsible for routing packets for which there is multiple routing information available.

Select one:



False

Correct

1.00 points out of 1.00

In the context of operating system support, it would be desirable to copy the forked process's address space contents since all of them are immediately needed.

Select one:

True

False

Question 12

Correct

1.00 points out of 1.00

In the context of inter-process communication, processes usually share data, and sharing a port would require access to common data representing the messages in the queue of the port.

Select one:

- True
- False ✓

Question 13

Correct

1.00 points out of 1.00

In the context of distributed systems, migration of resources (information objects) oftentimes needs to be necessarily performed to reduce communication delays and balance the load of processing and storage among different servers.

Select one:

- True
- False

Question 14

Correct

1.00 points out of 1.00

In the context of system models and internetworking, the crawler tasks of a web search engine, which spread the load of tasks across many computers, could build partial indexes to new pages incrementally and then merges them with the active index (including deleting invalid references).

Select one:

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0.00 points out

Question 16

1.00 points out

Correct

of 1.00

Incorrect

of 1.00

019	
True 	
False	
networks reduces th	er-process communication, the introduction of overlay e complexity of the Internet architecture to support yles and more effective operations.
Select one:	
● True ★	
False	
	working, virtual circuit network protocol is not widely of the current Internet due to its overhead of registering
Select one:	
● True	
True 🗸	

Question 17

Correct

1.00 points out of 1.00

In the context of networking, the basic TCP buffering algorithm, in comparison with Nagle's algorithm, is more suitable and efficient for interactive applications.

Select one:

- True
- False

Question 18

Correct

1.00 points out of 1.00

In the context of inter-process communication, Negative Acknowledgement (NAK) is usually not preferred if generally only a small portion of messages are dropped.

	Select one:
	True
	False ✓
Question 19	
Correct 1.00 points out	In the context of distributed systems, a hierarchic naming scheme usually scales better than a naming scheme that uses linear structures.
of 1.00	Select one:
	True ✓
	False
Question 20 Incorrect 0.00 points out	In the context of operating system support, address space protection and processor privilege settings are used to restrict access to file data and file system data in memory and these provide direct access to storage devices.
of 1.00	Select one:
	• True ×
	O False
Question 21	In the context of networking, with a connection-oriented protocol such as
Correct	TCP, all data packets must be received and acknowledged in the order in
1.00 points out of 1.00	which they are transmitted.
	Select one:
	True ✓

Incorrect

0.00 points out

In the context of inter-process communication, a client process can communicate with a server process as long as the IP address of the server is known to the client.

01 1.00	
	Select one:
	● True ★
	O False
Question 23 Correct	In the context of system models and internetworking, a peer-to-peer system could use replication to ensure the data integrity; and use hash checking to
1.00 points out of 1.00	ensure the data availability.
	Select one:
	○ True
	False ✓
Question 24	In the context of operating system support, the advantage of implementing
Correct	a system call as an RPC is that a process can perform operations
1.00 points out of 1.00	transparently on either remote or local resources.
	Select one:
	True ✓
	False
Question 25	In the context of system models and internetworking, due to the unbounded
Incorrect	message transmission time, no guarantee bound could be given for the
0.00 points out of 1.00	difference between two computer clocks unless the network time protocol is available and used to synchronize computer clocks.
	Select one:
	● True ★
	False

Correct

1.00 points out of 1.00

in the context of system models and internetworking, arbitrary failure could be masked by omission failure, and the latter is oftentimes considered benign and further could be masked by replication.

Select one:

- True
- False

Question 27

Correct

1.00 points out of 1.00

In the context of system models and internetworking, multi-tier based design approach is much better for evolution because it is with intrinsic separation of concerns and does not introduce any extra complexities.

Select one:

- True
- False

Question 28

Incorrect

0.00 points out of 1.00

In the context of networking, packets transmitted through a store-andforward network travels by a route that is determined statically for each packet.

Select one:

- True X
- False

Question 29

Correct

1.00 points out of 1.00

In the context of system models and internetworking, objects in the file system, e.g., files, directories can be read/written/created/deleted using the rights of the local user who runs the program.

Select one:

- True
- False

Incorrect

0.00 points out of 1.00

In the context of operating system support, load-balancing schemes are desired for both heavy and light jobs.

Select one:

- True X
 - False