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	Exam 1	10 851
	Thursday October 12 2006	801 Berowe
Name	Key	55 IVI 13 POINT 65 IVIII CUNVE Added
	estions at 4 points each.	solli curve Adder
No bo	oks, notes, or computers may be used when taking	the exam.
1.	The motivation for constructing distributed syst to share resources. Name at least four commonly Documents Processor File System Printers	cems stems from a desire
2.	Certain classes of problems are associated with distributed system. These problems are not normal execution of a non-distributed system. Name at 1 problems or concerns: Independent failure of Components LACK OF 610 ba 1 Clock Communication Frimes	ally associated with the least three of these OPENNESS NOT Corrections SECURITY
3.	The World Wide Web is based on three main techno Name these three technological components: URL'S HTTP HTML	Cowcup + ewcy plogical components.
	Processors NPP11cg710	IS SYSTEMS Ows
5.	The Coulouris text discusses distributed system costs and losses that need to be controlled. A controlled is Handwane Cost needs to be controlled is Loss of Pensonna	scalability in terms of NOT LAT ost that needs to be A loss that Belinbill
6.	middleware is defined as a lapurpose is to mask heterogeneity and to provide a programming model to application programmers.	ayer of software whose
	The aim of Peer To Peer archithe resources (both data and hardware) in a large participating computers for the fulfillment of a activity.	

8. A Rsynclations is a distributed system where there are no bounds on process execution speed, message transmission delays or clock drift rates.
9. A specification of the sequence of messages that must be exchanged along with the specification of the format of the data in the messages is called a
best route for communication between two points in the network is re- evaluated periodically, taking into account the current traffic in the network and any faults such as broken connections or routers.
11. Recall the routing algorithm discussed in class. Suppose that router A receives a routing table from router B. Suppose too that router A finds that a remote row's destination is not in A's local table. What will router A do with the remote row? Add it to its TABLE.
12. The addressing by provides a uniform internetwork addressing scheme that enables packets to be addressed to any host connected to any subnet.
13. TP PROTOCOL provides a protocol defining the format of internetwork packets and giving rules according to which they are handled.
14. Domain Name Service is used to translate names such as www.cnn.com into IP addresses.
routers maintain an address translation table and exploit the source and destination port number fields in the UDP and TCP packets to assign each incoming reply message to the internal computer that sent the corresponding request message. 16. NAT
16. DNC proposed that some the substantial product and dynamically acquire an IP address in the address range of the local subnet and discover the addresses of local resources such as a DNS.
17. enables a newly connected computer to act as a server in a new subnet. It's an example of IP tunneling.
18. An <u>EtherNet Swirel</u> performs a routing function but at the Ethernet level.

Adduces Resolution Protocol

- 19. The RP is responsible for converting Internet addresses to network addresses for a specific underlying network. For example, it maps IP addresses to Ethernet addresses.
- 20. Wi-Fi 6- Wave Lan is in many ways similar to Ethernet but adds RTS and CTS frames.
- 21. Create a document that conforms to the following DTD. The root of the document is FFS.

<?xml version="1.0" encoding="utf-8"?>

<!ELEMENT FFS (Notional, Fixed Rate) >

<!ELEMENT Notional (#PCDATA)>

<!ATTLIST Notional currency (pounds | yen) #REQUIRED>

<!ELEMENT Fixed Rate (#PCDATA) >

<FES>

SHOTIONAL CULLENCY: "YEH">1005/NOTIONAL)
SEIXED.RATES 4.0 S/FIXED.RATES

</FRS>

22. With respect to the grammar in question 21, which asynchronous method will a SAX parser call when it encounters the #PCDATA content in a conforming document instance?

characters

23. The following snippet of code is from the XSDL document that you worked with in Project 2. Briefly describe why this is an example of promoting interoperability.

The Formar of time is defined.

24. Recall the knock knock protocol that we reviewed in class. Briefly describe how this protocol lends support to the end-to-end argument?

The KKP did error checking OF ITS
OWN THAT WOULD NOT be APPROTHING POR
A LOWER LEVEL TROTOCOL

25. Consider the following lines of code from a DOM program. What Java class would we expect the variable score to be?

Text value = document.createTextNode("100");
score.appendChild(value);

OR Node

A CIASS THAT WOULD IMPLEMENT THE ELEMENT INTERFACE