Quiz 3_Ch 10-Ch 13 (password: 2626)

Due Nov 14 at 11:59pm **Points** 10 **Questions** 40

Available Nov 7 at 12am - Nov 14 at 11:59pm Time Limit None

Instructions

You will receive 0.25 points for each calculation question; please enclose the detailed calculation.

You cannot come back to the previous question.

Thank you!

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	30 minutes	8.75 out of 10 *

^{*} Some questions not yet graded

(!) Correct answers are hidden.

Score for this quiz: 8.75 out of 10 *

Submitted Nov 13 at 4:18pm This attempt took 30 minutes.

Question 1

0.25 / 0.25 pts

It is the responsibility of the processor to periodically check the status of the I/O module until it finds that the operation is complete.

True	
O False	
Question 2	0.25 / 0.25 pts
With isolated I/O there is a single a	ddress space for memory locations

True

and I/O devices.

False

Incorrect

The difference between virtual circuits and packet switching is _____ point signal line packet routing the path of each packet gateway connection

Question 4	0.25 / 0.25 pts
Which of the following is not part of the TC	P/IP protocol suite?
O ftp	
http	
• SMS	
O ssh	

Question 5	0.25 / 0.25 pts
With a daisy chain the processor just picks the interru highest priority.	pt line with the
O True	
False	

Question 6

0.25 / 0.25 pts

	mount of time that it takes for a packet to get from one end of etwork to the other is called the
•	network propagation delay.
	network diameter delay time.
	furthest node travel time.
0	network broadcast delay.

Which of the following is a primary measure to keep the network and system resources intact and free from the results of intrusion? confidentiality electronic signatures CAPTCHAS limiting physical access to network wiring and network equipment.

Question 8

Not yet graded / 0.25 pts

Please enclose the detail calculation:

A multiple hard disk is divided into 1100 sectors and 40,000 cylinders. There are six platter surfaces. Assume each block has 512 bytes. The disk is rotating at a rate of 4800 rpm. The disk has an average seek time of 12 msec. What is the total capacity of this disk?

Your Answer:

Ans: 100*40000*6*512=135168000000 bytes

Question 9 0.25 / 0.25 pts

The amount of time that it takes for a packet to get from one end of the network to the other is called the

- network diameter delay time
- network broadcast delay
- furthest node travel time
- network propagation delay

Question 10

0.25 / 0.25 pts

Symmetric key cryptography requires

the same key be used, one publicly available, and the other private.
two different keys, both private.
two different keys, one publicly available, and the other private
the same key be used for both encryption and decryption.

Question 11		0.25 / 0.25 pts
successful end-t at the transport l	o-end connection is ayer. These layers a	SI model assume that a established and maintained re concerned with the flow of as on the communicating
four		
three		
O two		
Ofive		

Question 12

Not yet graded / 0.25 pts

Please enclose the detail calculations:

How many connections are required for 60 nodes to be connected in a full mesh topology?

Your Answer:

Ans:

No of connections = nodes(nodes-1)/2

60(60-1)/2

60*(59)/2

1770 connections are required for 60 nodes to be connected in a full mesh topology.

Question 13

0.25 / 0.25 pts

The channel architecture is more powerful and flexible, because____

- better performance alternative to the IDE bus
- avoid conflicts between the CPU and I/O modules during transfers
- it data transfers between I/O and memory

packets

it isolates and processes each operation independently	

Question 14 To solve the related problems of channel availability and maximum utilization, there must be a way to break long messages into smaller units. These units are called containers envelopes boxes

Incorrect

The purpose of a bus interface is_____ send signals on different lines in each bus overwhelm the signals on the bus provide the correct data transfer rate allowing each part of the system to be optimized separately

Which Ethernet type is based logically on a star topology and when one node on the network wishes to communicate with another node, the switch sets up a direct connection between the two? Mesh Ethernet Switched Ethernet Ring Ethernet

Question 17

0.25 / 0.25 pts

Which type of network is used to interconnect local area networks? The primary motivation for this type of network is to improve overall performance of a larger network by creating separate local area networks for groups of users who communicate primarily with each other.

- connected networks
- backbone networks

O link networks	
extended networks	

Question 18 In a wireless network where the access points are connected by radio, the mesh points operate at the _____ and are essentially invisible to the upper layers of the network. session layer 5 (layer 5) media access control layer (layer 2) physical layer (layer 1) transport layer (layer 4)

Which of the following is not true about datagram switching? TCP/IP rarely uses datagram switching.

A routing decision can be based on traffic conditions at the time of packet arrival.
A routing decision can be based on shortest path to next node.
Each packet is routed from node to node independently.

The ____ contains logic for performing a communication function between the peripheral and the bus. | I/O command | I/O processor | I/O module | I/O channel

Question 21	0.25 / 0.25 pts
A technique calledsystem is used to simulate multi same CPU and I/O facilities.	_ is where an individual computer ple computers, all sharing the

virtualization		
replicating		
Clustering		
parallelization	n	

Un most computer systems, the CPU, memory, and other major components are mounted to wiring on a printed circuit board known as a(n) adapter board circuit plane peripheral board motherboard

Question 23

0.25 / 0.25 pts

The PCI-Express is made up of a bundle of thirty-two serial, bidirectional point-to-point buses. Each bidirectional bus is called a(n)

sub-bus.
o component bus.
inner bus.
lane

Question 24	0.25 / 0.25 pts
The most common means of computer/user interact	ion is a
keyboard/monitor	
mouse/printer	
o modem/printer	
o monitor/printer	

Question 25	0.25 / 0.25 pts
The advantage of clustering is	
The davantage of stationing to	

Incorrect

load-balancing	
isochronous data transfer	
ocommodity-off-the-shelf	
O grid	
Question 26	0 / 0.25 pts
The layer is the key to the	e operation of Thunderbolt and
Question 26 The layer is the key to the what makes it attractive as a high-sp common transport	e operation of Thunderbolt and

Question 27	0.25 / 0.25 pts
The primary external bus for connect computer is	cting peripheral devices to a
O SATA	

physical

cable

O PCI-Express
Serial Attached SCSI (SAS
USB (Universal Serial Bus)

Question 28	0.25 / 0.25 pts
describes the fundamenta of a network	al configuration, or layout,
network topology	
ofull-duplex channels	
o simplex channel	
 communication channel 	

Question 29	0.25 / 0.25 pts
is a central conn simplify wiring and maintenance	ection device used to
Ethernet	
hub	

O gateway	
Local area network	

Question 30	0.25 / 0.25 pts
The address for each node on an Ethernet is called a	
collision	
O data link layer	
carrier sense multiple access	
MAC address	

Question 31	0.25 / 0.25 pts
The purpose of the from network applications and provi	is to take message ide services that support reliable
address resolution protocol	
oport	

O IP	
transport layer	

Question 32	0.25 / 0.25 pts
The contains I/O protocols that are ma	pped on to the transport
application	
O cable	
O physical	
o common transport	

Question 33	0.25 / 0.25 pts
To restore the original waveform that was used to me use	nodulate the carrier ,
frequency	
wavelength	
demodulator	

filtering		

Question 34	0.25 / 0.25 pts
The main disadvantage of an I/O bus (and buses in	general)
memory-mapped I/O	
the processor spending much of its time indle waiting	ing for each bus
• the bus has fixed bandwidth that must be shared by a	Il other devices
iterrupts	

I /O system can be divided into two major components: the technologies used to interface the I/O devices to the rest of the system and ______ • the I/O devices themselves • interface abstraction • specification

Question 36	0.25 / 0.25 pts
How does the virtual memory system peach other's data?	prevent programs from accessing
every write to the main memory had	I to be sent to the disk
 swapping systems copy all of the management 	emory
reduces the amount of time spent co	opying data of of the hard disk
memory from one program cannot targo program's data	et the physical address another
Question 37	0.25 / 0.25 pts

O CPU

smart card

touch screen	
optical character recognition device	
	_

Question 38 O.25 / 0.25 pts To identify the network application requesting service, the transport protocol identifies the application that created the message and the application that is to receive the message with ______ application numbers application address numbers network node numbers port numbers

The network connection between nodes is not accessible from outside the cluster True False

Question 40	0.25 / 0.25 pts
The upper layers of the OSI model assume successful end-to-end connection is established and transport layer. These layers are concerned with the control between applications on the communicating response.	maintained at the flow of data and
O five	
ofour	
• three	
O two	

Quiz Score: 8.75 out of 10