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

**Due** Nov 14 at 11:59pm

Points 10

**Questions** 40

Available Nov 10 at 12am - Nov 14 at 11:59pm 5 days

Time Limit 90 Minutes

### Instructions

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

You cannot come back to the previous question.

Thank you!

### **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	88 minutes	8.5 out of 10 *

<sup>\*</sup> Some questions not yet graded

(!) Correct answers are hidden.

Score for this quiz: 8.5 out of 10 \*

Submitted Nov 14 at 9:32pm

This attempt took 88 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

False

Question 2	0.25 / 0.25 pts
With isolated I/O there is a single address space for me and I/O devices.	mory locations
O True	
False	

Incorrect

Question 3	0 / 0.25 pts
The difference between virtual circuits and packet switch	ing is
gateway connection	
the path of each packet	
o packet routing	
opoint signal line	

Question 4	0.25 / 0.25 pts		
Which of the following is not part of the TCP/IP protocol suite?			
O ftp			

http			
© SMS	3		
Ssh			

### Question 5 O.25 / 0.25 pts With a daisy chain the processor just picks the interrupt line with the highest priority. True False

### 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 broadcast delay. network diameter delay time. furthest node travel time. network propagation delay.

### Which of the following is a primary measure to keep the network and system resources intact and free from the results of intrusion? CAPTCHAS confidentiality electronic signatures 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:

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

vel time
delay time
tion delay
ti

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

Question 11	0.25 / 0.25 pts
	n is established and maintained at are concerned with the flow of data
o two	
three	
o five	

four

### **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:

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

so, 60(60-1)/2

60\*(59)/2

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

### Incorrect

### Question 13 0 / 0.25 pts

### The channel architecture is more powerful and flexible, because\_\_\_\_\_

- it isolates and processes each operation independently
- 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

Question 14	0.25 / 0.25 pts
To solve the related problems of channel avaiutilization, there must be a way to break long runits. These units are called	
envelopes	
containers	
packets	
boxes	

Incorrect

0 / 0.25 pts
arately

### **Question 16**

0.25 / 0.25 pts

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		
<ul><li>Ring Ethernet</li></ul>		
Switched Ethernet		
Star 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.

- extended networks
- connected networks
- link networks
- backbone networks

### **Question 18**

0.25 / 0.25 pts

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.

media access control layer (layer 2)

_ r	physical layer (layer 1)
O 5	session layer 5 (layer 5)
O t	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 shortest path to next node. Each packet is routed from node to node independently. A routing decision can be based on traffic conditions at the time of packet arrival.

Question 20	0.25 / 0.25 pts
The contains logic for performing a communic between the peripheral and the bus.	cation function
○ I/O processor	
○ I/O command	

I/O channel			
I/O module			

Question 21	0.25 / 0.25 pts
A technique called system is used to simulate CPU and I/O facilities.	is where an individual computer multiple computers, all sharing the same
clustering	
replicating	
<ul><li>parallelization</li></ul>	
virtualization	

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

Question 23	0.25 / 0.25 pts
The PCI-Express is made up of a bundle of thir bidirectional point-to-point buses. Each bidirection	•
inner bus.	
lane	
sub-bus.	
component bus.	

Question 24	0.25 / 0.25 pts
The most common means of computer/user interaction i	s a
monitor/printer	
o modem/printer	
mouse/printer	
keyboard/monitor	

Question 25	0.25 / 0.25 pts
The advantage of clustering is	

grid	
load-balancing	
ocommodity-off-the-shelf	
isochronous data transfer	

### Incorrect

### The \_\_\_\_\_ layer is the key to the operation of Thunderbolt and what makes it attractive as a high-speed peripheral I/O technology. common transport application physical cable

### The primary external bus for connecting peripheral devices to a computer is \_\_\_\_\_\_ SATA Serial Attached SCSI (SAS

USB (Universal Serial Bus)		
O PCI-Express		

Question 28	0.25 / 0.25 pts
describes the fundamental configurations a network	ration, or layout, of
<ul><li>simplex channel</li></ul>	
<ul> <li>communication channel</li> </ul>	
ofull-duplex channels	
network topology	

Question 29	0.25 / 0.25 pts
wiring and maintenance	is a central connection device used to simplify
Ethernet	
Local area network	
hub	
gateway	

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

Question 31	0.25 / 0.25 pts
The purpose of thenetwork applications and provide services that scommunications	_ is to take message from support reliable end-to-end
o port	
address resolution protocol	
○ IP	
transport layer	

Questic	on 32	0.25 / 0.25 pts
The layer.	contains I/O protocols that are mapped	I on to the transport

Ophysical		
Cable		
application		
ocommon transport		

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

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

Question 35	0.25 / 0.25 pts
I /O system can be divided into two major components used to interface the I/O devices to the rest of the system————————————————————————————————————	J
interface abstraction	
the I/O devices themselves	
interrupts	
specification	

# How does the virtual memory system prevent programs from accessing each other's data? swapping systems copy all of the memory reduces the amount of time spent copying data of of the hard disk memory from one program cannot target the physical address another program's data every write to the main memory had to be sent to the disk

Question 37	0.25 / 0.25 pts
Device which is consists of a sensing mechanism integrated display screen called	grated within the
smart card	
optical character recognition device	
touch screen	
○ CPU	

### 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 address numbers onetwork node numbers application numbers

### Question 39 0.25 / 0.25 pts The network connection between nodes is not accessible from outside the cluster

True		
False		

Question 40		0.25 / 0.25 pts
end-to-end conn layer. These laye	ection is established	OSI model assume that a successful d and maintained at the transport with the flow of data and control unicating nodes.
ofour		
three		
five		
O two		

Quiz Score: 8.5 out of 10