Midterm_Exam password: 2424 (Ch1- Ch9)

Due Oct 24 at 11:59pm

Points 20.13

Questions 61

Available Oct 17 at 12am - Oct 24 at 11:59pm

Time Limit 150 Minutes

Instructions

Once you have submitted an answer, you will not be able to change it later.

You will not be able to view the previous question.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	31 minutes	20.13 out of 20.13

(!) Correct answers are hidden.

Score for this quiz: 20.13 out of 20.13

Submitted Oct 24 at 2:04pm
This attempt took 31 minutes.

Question 1

0.33 / 0.33 pts

The components of an individual computer system consist of processing hardware, input devices, output devices, storage devices

- and operating system software
- application software and operating system software

and application programs	
application software, file storage, and data processing	
Correct	

Question 2	0.33 / 0.33 pts
-	provides the physical mechanisms to input and manipulate and process data, and to electronically rious input, output, and storage
o compute	er software
network	
O data	
compute	er hardware
Correct	

Question 3

hich of the following is <i>not</i> part of the conceptual view of a CPU?	
ALU	
Main memory	
Control Unit	
Interface Unit	
rect	

Question 4	0.33 / 0.33 pts
The system architecture representation of data within an organization is called	the flow and processing of
application architecture	
flow control architecture	
three-tier architecture	
 customer oriented architecture 	

Correct

Question 5	0.33 / 0.33 pts
The acts as an interface between the open drivers, and applications and the devices that an host.	
USB (universal serial bus) controller	
seek strategy	
I/O traffic controller	
search time	
Correct	

Question 6

0.33 / 0.33 pts

In a client-server architecture, the only limitations to running multiple applications on a single server are the potential slowdowns that may result from the load on the server computer and _____

the traffic on the network to that server
users who open many web browsers
load on client computer
traffic on the Internet

Correct

Question 7	0.33 / 0.33 pts
Data security is the ability of a system to	
 handle a growing amount of work 	
allow access to information when it is needed	
protect data against unauthorized access or modif	ication.
allow configuration, monitoring, and maintaining or	peration
Correct	

Question 8	0.33 / 0.33 pts
In a client-server architecture, the only limitations to rapplications on a single server are the potential slower result from the load on the server computer and	
the traffic on the network to that server	
users who open many web browsers	
O load on client computer	
 traffic on the Internet 	
Correct	

The protocol that makes communication between a Web server and a database application possible is called SQL Common Gateway Interface Database Control Language



How many binary digits does it take to represent the decimal number 2013? 8 16 2013 11 Correct

Question 11

0.33 / 0.33 pts

How many bytes does it take to store the binary equivalent of the decimal number 1945?

2	
O 1	
O 10	
O 4	
Correct	

Question 12	0.33 / 0.33 pts
Eight raised to the power zero is	
O -8	
1	
O 0	
O 8	
Correct	

Question 13	0.33 / 0.33 pts
A single digit that can have only one of two values, a	0 or 1, is
Character	
bit	
Signal	
O blip	
Correct	

Question 14	0.33 / 0.33 pts
The number of different digits, including zero, that essential system is the	exist in the number
base	
o range	
parameter	
○ field	

Correct

Question 15	0.33 / 0.33 pts
Input from a device that represents a continuous as	range of data is known
metadata	
analog data	
O discrete data	
o various data	
Correct	

Question 16 Information that describes or interprets the meaning of the data is known as_____ EBCDIC

analog	
metadata	
O ASCII	
Correct	

The term distributed operating system is used to describe a specific set of rules used to control the flow of messages through the network. True False Correct

Question 18 0.33 / 0.33 pts Image files that store each individual point within the image are_____

glyphs
bitmap images
O object images
 vector images

Operation of the LMC The ADD instruction adds data from_____ a mailbox to the in basket one mailbox to another mailbox the in basket to a mailbox a mailbox to the calculator

Question 20 0.33 / 0.33 pts

Operation of the LMC A STORE command will leave the original data in the mailbox	
O deleted	
overwritten	-
corrupted	
unchanged	

Question 21	0.33 / 0.33 pts
Representing Numerical Data	
How do computers store all data and program instructi	ons?
As binary numbers	
As ASCII characters	
As decimal numbers	
As algebraic equations	

Question 22	0.33 / 0.33 pts
The term protocol is used to describe a specific control the flow of messages through the netwo	
True	
O False	

An 8-bit storage location can store any unsigned integer of value between 0 and 512 16 255 7

Question 24	0.33 / 0.33 pts
What does BCD stand for?	
Binary-Coded Decimal	
Binary Common Denominator	
Binary Character Data	
Binary Calculating Device	

Question 25	0.33 / 0.33 pts
How many BCD digits can be stored in one byte?	
O 7	
2	
O 255	

0 1			

Question 26	0.33 / 0.33 pts
If we complement the value twice, it will	
return to its original value	
be twice as big	
reset the carry flag	
cause an overflow error	

Question 27	0.33 / 0.33 pts
The ALU and CU together are known as the	
instruction set	
oprogram counter	

0	CPU
0	Memory Management Unit

The 1-bit registers that are used to allow the computer to keep track of special conditions (like overflow or power failure) are often called I/O counters flags the ALU loops

Question 29 0.33 / 0.33 pts

The mailboxes in the LMC model are the equivalent to a real computer's

O ports
• memory
O CPU
o control unit

The different ways of establishing memory addresses within an instruction are called addressing modes MAR codes programmable modes

Question 31 0.33 / 0.33 pts

Chapter 8: CPU and Memory Design Enhancement and Implementation

CPU architecture is defined by the basic characteristics and major features of the CPU. "CPU architecture" is sometimes called______

instruction set architecture

CPU design and organization

structural organization

architecture design

Question 32	0.33 / 0.33 pts
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Section 8.2 CPU Features and Enhancements The _____ must be designed to assure that each step of the instruction cycle has time to complete before the results are required by the next step. ALU clock cycle

Control Unit

Question 33	0.33 / 0.33 pts
Overlapping instructions—so that more thworked on at a time—is known as the	
oconveyor belt method	
accelerator method	
assembly line method	
pipelining method	
Question 34	0.33 / 0.33 pts

A means of allocating CPU time

A completion sign	nal
A way of bufferin	g large amounts of data
 An abnormal eve 	ent indicator

Question 35 Section 9.4 Direct Memory Access: Data from disks, and tapes, and flash memory are transferred only in No answer text provided. chunks of data blocks of data bits

Question 36 0.33 / 0.33 pts

Internal interrupts caused by events related to problems or special conditions within the computer itself are sometimes called

traps or exceptions	
exclusions	
exemptions	
special errors	
Correct	

Question 37

0.33 / 0.33 pts

Section 9.3 Interrupts

Instructions that are intended for use by an operating system program, but not by an application program, are called

- privileged instructions
- limited instructions
- prevalent instructions
- control instructions

Correct

Question 38

0.33 / 0.33 pts

Section 9.3 Interrupts

When an interrupt causes temporary suspension of the program in progress, all the pertinent information about the program being suspended, including the location of the last instruction executed, and the values of data in various registers are stored in an area of memory known as the

- memory dump block
- process control block
- program method block

Correrct

Question 39

The work performed by an individual computer system within the IT system can be characterized by	
hardware and software	
input, processing, and output	
 storage processing and output 	
input, storage and output	

Question 40

0.33 / 0.33 pts

As a matter of necessity, network interfaces must conform to standard		
agreements, known as, for messages to	be understood	
by both computers during a message exchange between a pair of		
computers.		
davias centrallers		
device controllers		
Ethernet standards		
○ I/O services		
170 001 11000		
protocols		

Question 41

Many of the internal OS services are provided by the module, which contains the most important operating system processing functions.
O CPU
kernel
oroot
O central

Question 42	0.33 / 0.33 pts
When the computer is started, a bootstrap or IPL begins testing the system. Where is this bootstra	,
RAM	
hard drive	
● ROM	
virtual memory	

Question 43

Section 1.4 Storage devices communicate with a computer using protocols. One such protocol is:
o serial encoded messages (SEM)
PATA
hard-disk parallel communications protocol (HDPC)
SATA

Question 44	0.33 / 0.33 pts
The alphanumeric code that has codes for the ch every character-based alphabet of the world is	aracters of nearly
Ordinal	
Unicode	
O EBCDIC	
O ASCII	

Question 45 0.33 / 0.33 pts

The nature of display technology makes it much more convenient and cost effective for regular printers and display screens to display and print all images as	
equations	
pseudocode	
bitmaps	
O palettes	

Question 46 Section 4.3 The individual elements that form a bitmap image are called grid bits palettes resolution pixels

Question 47 0.33 / 0.33 pts

) The I/∩ disk o	controller provides a buffer where the data from memory
	ntil it can be transferred to the disk.
	controller has interrupt capability, which it uses to notify the e transfer is complete.
The I/O dis	sk controller manages main memory during the transfer.
	controller recognizes messages addressed to it and
	controller recognizes messages addressed to it and mands from the CPU.

Interrupts that can never be temporarily disabled by program instructions are called_____ non-transferable. invariable.

unchangeable.	
Question 49	0.33 / 0.33 pts
The computer provides a CARRY FL carries and borrows that occur when into parts to perform additions and su	large number must be separated
True	
O False	
Question 50	0.33 / 0.33 pts
The sources and destinations of data or explicit, are known as SATURATION	
O True	
TrueFalse	

Section 5
Suppose you are writing a program that needs to represent a maximum 50,000 whole things (i.e. integer data type).
Would be better: to use a long integer (64 bits)
True
False

Question 52	0.33 / 0.33 pts
In the von Neumann architecture, memory is address	ed
by location number	
 by contents of the memory location 	
O by the value stored	
by instructions only	

Question 53	0.33 / 0.33 pts
Eight raised to the power zero is	

1	
O 0	
O -8	
O 8	

Question 54 The main memory, often known as primary storage, working storage, or RAM (for random access memory), holds_____ program instructions, data, and instructions for booting the computer program instructions and data program instructions data

Question 55	0.33 / 0.33 pts
The COFFEE BREAK(HALT) instruction	·
empties the out basket	

clears all mailboxes
pauses the program
ignores the address portion of the instruction

Question 56 The register that will hold the data value that is being transferred between the CPU and a particular memory location is called the _____ MDR MAR ALU PC

Question 57	0.33 / 0.33 pts
Simultaneous thread multiprocessing (STM)is also	known as
superthreading	

hyperthreading
expert threading
 concurrent threading

In Symmetrical Multiprocessing (SMP)each CPU has_____ identical access to the operating system, I/O and memory identical access to memory identical access to the I/O and memory identical access to the operating system, and to all system resources, including memory

Question 59

0.33 / 0.33 pts

The incompatibilities in speed between the various devices and the CPU make I/O synchronization difficult, especially if there are multiple devices attempting to do I/O at the same time. To handle these problems data is usually stored_____

on the disk drive	
inexternal storage	
in a buffer	
on the network	

Question 60

0.33 / 0.33 pts

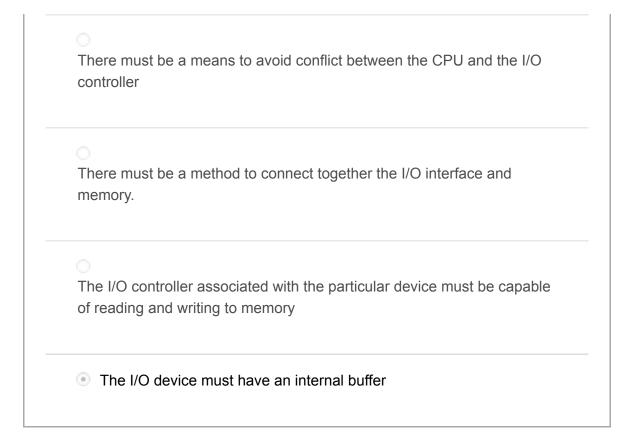
Four pieces of data must be provided to the I/O controller for a particular I/O device to initiate the DMA transfer. Which of the following is not required?

- The starting location of the block of data in memory
- The location of the data on the I/O device
- The length of time required to transfer the data
- The size of the block to be transferred

Question 61

0.33 / 0.33 pts

Which of the following is not one of the three primary conditions for direct memory access to take place?



Quiz Score: 20.13 out of 20.13