Midterm_Exam password: 2424 (Covering Ch 1 - Ch 9)

Due Oct 26 at 11:59pm

Points 20.13

Questions 61

Available Oct 26 at 10am - Oct 26 at 11:59pm about 14 hours

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

14707	
LATEST Attempt 1 57 minutes 19.8 or	ut of 20.13

(!) Correct answers are hidden.

Score for this quiz: 19.8 out of 20.13

Submitted Oct 26 at 11:15am This attempt took 57 minutes.

Question 1 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
The provides the physical mechanis output data, to manipulate and process data, and to eather various input, output, and storage	•
network	
 computer software 	
computer hardware	
O data	
Correct	

Question 3	0.33 / 0.33 pts
Which of the following is <i>not</i> part of the conceptual vie	ew of a CPU?
Control Unit	
O ALU	
O Interface Unit	



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

The ____ acts as an interface between the operating system, device drivers, and applications and the devices that are attached via the USB host. seek strategy search time

USB (ui	niversal serial bus) controller	
○ I/O traff	c controller	
Correct		

Question 6 O.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 traffic on the Internet users who open many web browsers load on client computer

Question 7 Data security is the ability of a system to_____ allow access to information when it is needed

Question 8 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______ users who open many web browsers load on client computer traffic on the Internet the traffic on the network to that server Correct

Question 9 O.33 / O.33 pts The protocol that makes communication between a Web server and a database application possible is called______

О НТТР	
○ SQL	
O Database Control Language	
Common Gateway Interface	
Correct	

Question 10	0.33 / 0.33 pts
How many binary digits does it take to represent the control 2013?	decimal number
8	
O 16	
O 2013	
11	
Correct	

Question 11 0.33 / 0.33 pts

ow many by umber 1945	tes does it take to store the binary equivalent of the decima?
O 4	
O 10	
0 1	
2	
Correct	

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

Question 13

bit		
signal		
character		
O blip		
Correct		

Question 14	0.33 / 0.33 pts
The number of different digits, including zero, that exist is system is the	n the number
○ field	
O parameter	
○ range	
base	
Correct	

Input from a device that represents a continuous range of data is known as ______ metadata analog data various data Correct

Question 16	0.33 / 0.33 pts
Information that describes or interprets the meaning as	g of the data is known
analog	
○ EBCDIC	
O ASCII	
metadata	
Correct	

Question 17	0.33 / 0.33 pts
The term distributed operating system is used to desort of rules used to control the flow of messages through t	•
True	
False	
Correct	

Question 18	0.33 / 0.33 pts
Image files that store each individual point within the im	age are
bitmap images	
vector images	
object images	
glyphs	

Question 19	0.33 / 0.33 pts
Operation of the LMC	
The ADD instruction adds data from	

a mailbox to t	the in basket		
the in basket			
	to a mailbox		
one mailbox t	to another mailbo)X	

Operation 20 Operation of the LMC A STORE command will leave the original data in the mailbox deleted unchanged overwritten corrupted

Representing Numerical Data How do computers store all data and program instructions?

As decimal numbers	
As binary numbers	
As ASCII characters	
As algebraic equations	

The term **protocol** is used to describe a specific set of rules used to control the flow of messages through the network. True False

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

O 16

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

Question 25	0.33 / 0.33 pts
How many BCD digits can be stored in one byte?	
O 1	
O 7	
O 255	
2	

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

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

Question 28	0.33 / 0.33 pts
The 1-bit registers that are used to allow the compuspecial conditions (like overflow or power failure) are	•
flags	
Oloops	
the ALU	
○ I/O counters	

Incorrect

Question 29	0 / 0.33 pts
The mailboxes in the LMC model are the	e equivalent to a real computer's
o ports	
© CPU	
memory	
ontrol unit	

Question 30

The different ways of establishing memory addresses within an instruction are called
MAR codes
○ MDR codes
addressing modes
o 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 characterist features of the CPU. "CPU architecture" is sometime called	•	
instruction set architecture		
CPU design and organization		
architecture design		
 structural organization 		

Question 32

The	must be designed to assure that each step of the tion cycle has time to complete before the results are required by tt step.
	instruction pointer
	Control Unit
	ALU
	clock cycle

Question 33	0.33 / 0.33 pts
Overlapping instructions—so that more than one instr worked on at a time—is known as the	uction is being —
accelerator method	
pipelining method	
assembly line method	
conveyor belt method	

Question 34 0.33 / 0.33 pts

Section 9.3 Interrupts: Which of the following is not a function of how interrupts are used?
A completion signal
A means of allocating CPU time
An abnormal event indicator
A way of buffering large amounts of data

Question 35	0.33 / 0.33 pts
Section 9.4 Direct Memory Access: Data from disks, ar memory are transferred only in	nd tapes, and flash
bits	
No answer text provided.	
blocks of data	
chunks of data	

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	
exclusions	
exemptions	
special errors	
traps or exceptions	
Correct	

Question 37	0.33 / 0.33 pts
Section 9.3 Interrupts Instructions that are intended for use by an operating not by an application program, are called	system program, but
limited instructions	
 control instructions 	
 prevalent instructions 	
privileged instructions	
Correct	

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 process control block memory dump block correct

Question 39	0.33 / 0.33 pts
The work performed by an individual computer system system can be characterized by	n within the IT
hardware and software	
input, storage and output	
input, processing, and output	
 storage processing and output 	

Question 40	0.33 / 0.33 pts
As a matter of necessity, network interfagreements, known as, both computers during a message exception of the computers.	for messages to be understood by
Ethernet standards	
protocols	
device controllers	
○ I/O services	

Question 41	0.33 / 0.33 pts	
Many of the internal OS services are provided by the module, which contains the most important operating system processing functions.		
kernel		
○ CPU		
○ central		
○ root		

Question 42

When the computer is started, a bootstrap or IPL (Initial Please begins testing the system. Where is this bootstrap program	,
○ virtual memory	
hard drive	
RAM	
◎ ROM	

Question 43 Section 1.4 Storage devices communicate with a computer using protocols. One such protocol is: PATA hard-disk parallel communications protocol (HDPC) serial encoded messages (SEM) SATA

Question 44 O.33 / 0.33 pts The alphanumeric code that has codes for the characters of nearly every character-based alphabet of the world is O.33 / 0.33 pts

Ordinal		
Unicode		
○ EBCDIC		

Question 45 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 palettes equations bitmaps pseudocode

Question 46	0.33 / 0.33 pts
Section 4.3 The individual elements that form a bi	tmap image are called
grid bits	
○ palettes	
resolution	
pixels	

Question 47	0.33 / 0.33 pts
Which of the following is not a common function of an I/C) disk controller?
The I/O disk controller provides a buffer where the data from be held until it can be transferred to the disk.	n memory can
The I/O disk controller recognizes messages addressed to it commands from the CPU.	t and accepts
The I/O disk controller has interrupt capability, which it uses CPU when the transfer is complete.	to notify the
The I/O disk controller manages main memory during the	e transfer.

Question 48	0.33 / 0.33 pts
Interrupts that can never be temporarily disabled by are called	program instructions
onon-transferable.	
invariable.	
unchangeable.	
nonmaskable.	

Question 49	0.33 / 0.33 pts
The computer provides a CARRY FLAG that is used to and borrows that occur when large number must be so to perform additions and subtractions.	
True	
○ False	

Question 50 The sources and destinations of data for an instruction, whether implicit or explicit, are known as SATURATION True False

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)

False

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

Question 53	0.33 / 0.33 pts
Eight raised to the power zero is	
1	
O 8	
O 0	
○ -8	

Question 54 0.33 / 0.33 pts

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

Question 55	0.33 / 0.33 pts
The COFFEE BREAK(HALT) instruction	·
ignores the address portion of the instruction	
clears all mailboxes	
pauses the program	
 empties the out basket 	

Question 56	0.33 / 0.33 pts
The register that will hold the data value tha the CPU and a particular memory location is	•
O ALU	
○ MAR	

MDR			
O PC			

Question 57	0.33 / 0.33 pts
Simultaneous thread multiprocessing (STM)is also know	vn as
superthreading	
hyperthreading	
 concurrent threading 	
expert threading	

Question 58	0.33 / 0.33 pts
In Symmetrical Multiprocessing (SMP)each CPU has_	
identicalaccess to the I/O and memory	
identical access to memory	
identical access to the operating system, and to all syste including memory	em resources,
identical access to the operating system, I/O and me	mory

Question 59	0.33 / 0.33 pts
The incompatibilities in speed between the various of make I/O synchronization difficult, especially if there attempting to do I/O at the same time. To handle the usually stored	are multiple devices
inexternal storage	
in a buffer	
on the disk drive	
on the network	

Question 60	0.33 / 0.33 pts
Four pieces of data must be provided to the I/O control I/O device to initiate the DMA transfer. Which of the frequired?	·
The length of time required to transfer the data	
The size of the block to be transferred	
The location of the data on the I/O device	
 The starting location of the block of data in memory 	

Question 61

There m	nust be a means to avoid conflict between the CPU and the I/O
The	I/O device must have an internal buffer
	controller associated with the particular device must be capable of and writing to memory

Quiz Score: 19.8 out of 20.13