

Started on	Tuesday, 13 February 2024, 2:00 PM
State	Finished
Completed on	Tuesday, 13 February 2024, 3:04 PM
Time taken	1 hour 4 mins
Marks	60.17/61.00
Grade	98.63 out of 100.00

**Question 1**

Correct

Mark 1.00 out of 1.00

The speed at which data travels from the CPU to various components on the mother board is called the

Select one:

- ☐ a. Path speed
- ☐ b. Belt speed
- ☐ c. Cache speed
- ☒ d. Bus speed ✓

The correct answer is: Bus speed

**Question 2**

Correct

Mark 1.00 out of 1.00



Refer to the provided figure. What type of cable would have this symbol?

Select one:

- ☐ a. FireWire
- ☒ b. USB 3.0 ✓
- ☐ c. RF (radio frequency)
- ☐ d. Bluetooth

The correct answer is: USB 3.0

## Question 3

Correct

Mark 1.00 out of 1.00

What are system resources?

Select one:

- ☐ a. Windows threads allocated to hardware
- ☒ b. Description of IRQs, I/O addresses, and memory addresses assigned to a device ✓
- ☐ c. RAM allocated to applications
- ☐ d. Processes that slow the computer down in times of high activity such as when a virus scan is occurring

The correct answer is: Description of IRQs, I/O addresses, and memory addresses assigned to a device

## Question 4

Correct

Mark 1.00 out of 1.00

From the following group of terms, select one group whose items are incorrectly matched:

Select one:

- ☒ a. Firmware: BIOS, software, mouse ✓
- ☐ b. Software: Windows Vista, applications, operating system
- ☐ c. Hardware: PC, power supply, motherboard
- ☐ d. Storage: floppy disk drives, hard disk drives, optical drives

The correct answer is: Firmware: BIOS, software, mouse

## Question 5

Correct

Mark 1.00 out of 1.00

What is the advantage of using Flash BIOS?

Select one:

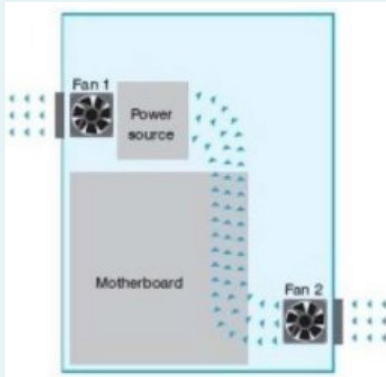
- ☐ a. It operates at a much faster speed than other types of BIOS.
- ☒ b. It enables changing the BIOS by using an update file instead of having to install a new chip. ✓
- ☐ c. Because all instructions are permanently burned on the chip, it is impervious to infection from viruses.
- ☐ d. All these answers are true.

The correct answer is: It enables changing the BIOS by using an update file instead of having to install a new chip.

## Question 6

Correct

Mark 1.00 out of 1.00



Consider the graphic. What statement is true?

Select one:

- ☒ a. The graphic shows the correct air flow for an ATX motherboard. ✓
- ☐ b. The graphic shows incorrect air flow for an ATX motherboard.
- ☐ c. The graphic shows the incorrect air flow for a liquid-cooled system.
- ☐ d. The graphic shows the correct air flow for a liquid-cooled system.

The correct answer is: The graphic shows the correct air flow for an ATX motherboard.

## Question 7

Correct

Mark 1.00 out of 1.00

DIP, DIMM, SIMM, and RIMM are terms associated with types of

Select one:

- ☐ a. Motherboards
- ☐ b. Ports
- ☐ c. Monitors
- ☒ d. Memory ✓

The correct answer is: Memory

## Question 8

Complete

Not graded

How are power-on passwords normally removed?

Select one:

- ☐ a. Through software
- ☒ b. By jumpering two pins together on the motherboard
- ☐ c. By using a special disk
- ☐ d. By booting from a different device

The correct answer is: By jumpering two pins together on the motherboard

## Question 9

Correct

Mark 1.00 out of 1.00

Major microprocessor manufacturers are

Select one:

- ☒ a. Intel, Motorola, and AMD ✓
- ☐ b. Apple, Gateway, and Dell
- ☐ c. Maxtor, Seagate, and Sony
- ☐ d. Microsoft, 3-Com, and Oracle

The correct answer is: Intel, Motorola, and AMD

## Question 10

Correct

Mark 1.00 out of 1.00

Memory addresses are shown in

Select one:

- ☒ a. Hexadecimal ✓
- ☐ b. Binary
- ☐ c. Octal
- ☐ d. Decimal

The correct answer is: Hexadecimal

## Question 11

Correct

Mark 1.00 out of 1.00

What is decimal number 14 in hexadecimal?

Select one:

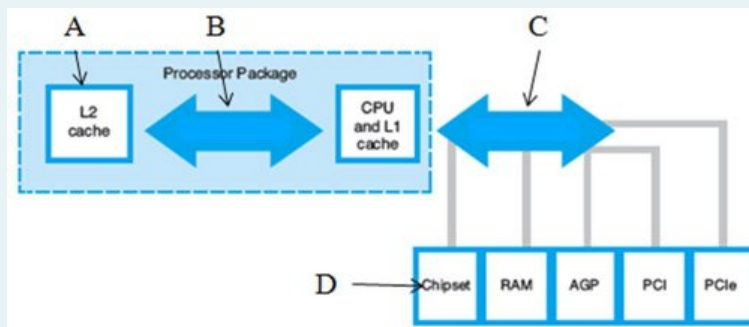
- ☐ a. C
- ☐ b. B
- ☐ c. A
- ☐ d. D
- ☒ e. E ✓

The correct answer is: E

## Question 12

Correct

Mark 1.00 out of 1.00



In the figure, item C. is pointing to the

Select one:

- ☐ a. The part that controls how many USB ports can be on the motherboard
- ☐ b. Internal data path
- ☐ c. Back side bus
- ☒ d. Front side bus ✓

The correct answer is: Front side bus

## Question 13

Correct

Mark 1.00 out of 1.00



What is the component shown in the figure?

Select one:

- ☐ a. DIP switch
- ☐ b. CMOS
- ☒ c. Lithium battery ✓
- ☐ d. Flash BIOS

The correct answer is: Lithium battery

## Question 14

Complete

Not graded

The size of a computer motherboard is known as its

Select one:

- ☐ a. Area platform
- ☐ b. Visual Interface Size (VIS)
- ☒ c. Form factor
- ☐ d. Hardsize

The correct answer is: Form factor

## Question 15

Correct

Mark 1.00 out of 1.00

What statement is true regarding a cold boot?

Select one:

- ☒ a. A cold boot occurs when you first turn on a computer. ✓
- ☐ b. A cold boot occurs when the PC boots from an external hard drive.
- ☐ c. A cold boot occurs when the PC boots from an internal hard drive.
- ☐ d. A cold boot occurs when you press Ctrl+Alt+Del.

The correct answer is: A cold boot occurs when you first turn on a computer.

## Question 16

Correct

Mark 1.00 out of 1.00

A better port for video than VGA is a

Select one:

- ☐ a. S/PDIF port
- ☐ b. USB port
- ☐ c. DIN port
- ☒ d. DVI port ✓

The correct answer is: DVI port

## Question 17

Correct

Mark 1.00 out of 1.00

What is one way to easily determine an adapter's function?

Select one:

- ☐ a. Look it up on the Internet.
- ☒ b. Look at the peripheral that attaches to the adapter. ✓
- ☐ c. Read the adapter label.
- ☐ d. Look at the part number.

The correct answer is: Look at the peripheral that attaches to the adapter.

## Question 18

Correct

Mark 1.00 out of 1.00

What is a benefit of active listening?

Select one:

- ☐ a. Enables more billable hours, which helps with business bottom lines
- ☐ b. Allows the customer to feel in control
- ☐ c. Enables the customer to control the conversation
- ☒ d. Enables you to solve a problem faster ✓

The correct answer is: Enables you to solve a problem faster

## Question 19

Correct

Mark 1.00 out of 1.00

A riser board attaches to a

Select one:

- ☒ a. Motherboard ✓
- ☐ b. CD/DVD drive
- ☐ c. USB port
- ☐ d. DIN

The correct answer is: Motherboard

## Question 20

Correct

Mark 1.00 out of 1.00

Data moves toward and away from the CPU on the \_\_\_\_\_, whereas data travels inside the CPU on the \_\_\_\_\_.

Select one:

- ☐ a. Distal data path; proximal data path
- ☐ b. Peripheral exchange; central route
- ☒ c. External data bus; internal data bus ✓
- ☐ d. High bus; low bus

The correct answer is: External data bus; internal data bus



## Question 21

Correct

Mark 1.00 out of 1.00



What does the graphic represent?

Select one:

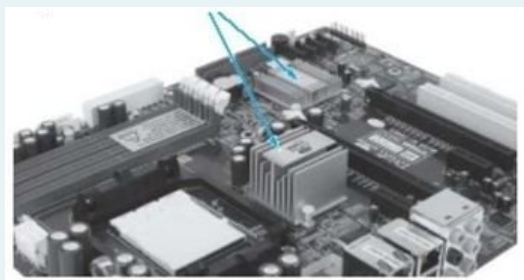
- ☒ a. A ZIF socket ✓
- ☐ b. A motherboard
- ☐ c. CPU
- ☐ d. A chipset

The correct answer is: A ZIF socket

## Question 22

Correct

Mark 1.00 out of 1.00



Reference the figure. What are the two components shown?

Select one:

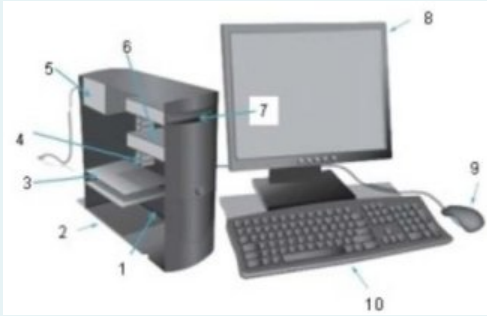
- ☐ a. ZIF sockets
- ☐ b. Dual CPUs
- ☒ c. Heat sinks ✓
- ☐ d. Chipset

The correct answer is: Heat sinks

## Question 23

Correct

Mark 1.00 out of 1.00



Examine the figure. Item 5 is called a(n)

Select one:

- ☐ a. Optical drive
- ☐ b. Riser
- ☐ c. Hard drive
- ☒ d. Power supply ✓
- ☐ e. Case

The correct answer is: Power supply

## Question 24

Correct

Mark 1.00 out of 1.00

Which type of connection would require line of sight for a wireless mouse?

Select one:

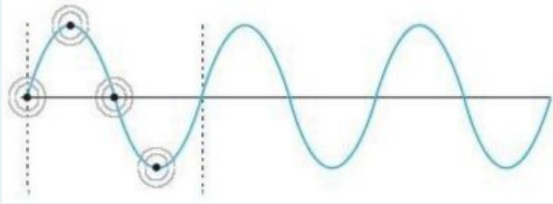
- ☐ a. Bluetooth
- ☐ b. Component
- ☒ c. Infrared ✓
- ☐ d. RF (radio frequency)

The correct answer is: Infrared

## Question 25

Correct

Mark 1.00 out of 1.00



What does the figure represent in terms of the CPU?

Select one:

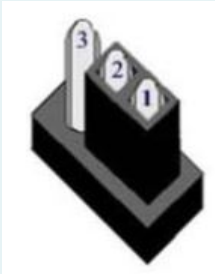
- ☐ a. How to convert analog to digital.
- ☒ b. How many times data is sent in one clock cycle. ✓
- ☐ c. How many bits can be sent at one time.
- ☐ d. How many times data is sampled in one clock cycle.

The correct answer is: How many times data is sent in one clock cycle.

## Question 26

Correct

Mark 1.00 out of 1.00



In the figure, the jumper setting on pin 1 and pin 2 is

Select one:

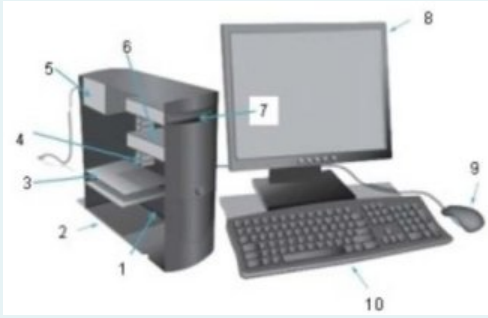
- ☐ a. Serial
- ☒ b. Enabled ✓
- ☐ c. Parallel
- ☐ d. Disabled

The correct answer is: Enabled

## Question 27

Complete

Not graded



Examine the figure. Item 3 is called a(n)

Select one:

- ☐ a. Hard drive
- ☐ b. Motherboard
- ☐ c. Riser
- ☒ d. Adapter
- ☐ e. Case

The correct answer is: Adapter

## Question 28

Correct

Mark 1.00 out of 1.00



Examine the figure. This port is called a

Select one:

- ☐ a. Serial port
- ☒ b. Video connector ✓
- ☐ c. Mouse connector
- ☐ d. Modem connector

The correct answer is: Video connector

## Question 29

Correct

Mark 1.00 out of 1.00

What program can be used to view I/O addresses?

Select one:

- ☐ a. Configuration Manager
- ☐ b. Memory Mapper
- ☒ c. Device Manager ✓
- ☐ d. I/O Steering Wizard

The correct answer is: Device Manager

## Question 30

Complete

Not graded

Which of the following is NOT indicated by the Setup program?

Select one:

- ☒ a. The amount of unused hard drive space
- ☐ b. The type and number of hard drives installed
- ☐ c. How much RAM is in the computer
- ☐ d. The order of devices that the system searches for an operating system

The correct answer is: The amount of unused hard drive space

## Question 31

Correct

Mark 1.00 out of 1.00

What term is used to describe two CPUs in a single unit?

Select one:

- ☐ a. DUO
- ☐ b. Bi-core
- ☒ c. Dual-core ✓
- ☐ d. Quad-core

The correct answer is: Dual-core

## Question 32

Correct

Mark 1.00 out of 1.00

CMOS holds the computer's

Select one:

- ☐ a. startup commands
- ☐ b. Flash BIOS
- ☐ c. Antivirus software
- ☒ d. current BIOS configuration ✓

The correct answer is: current BIOS configuration

## Question 33

Correct

Mark 1.00 out of 1.00

What is the purpose of the battery on the motherboard?

Select one:

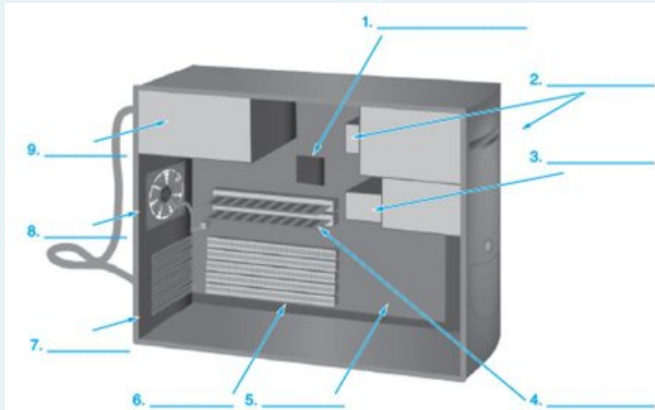
- ☐ a. To keep the POST software stored so it can execute during startup
- ☒ b. To keep the information stored in CMOS ✓
- ☐ c. To keep the information stored in RAM
- ☐ d. To keep the information stored in Flash BIOS

The correct answer is: To keep the information stored in CMOS

## Question 34

Correct

Mark 1.00 out of 1.00



Examine the figure. The part shown as 6 is the

Select one:

- ☐ a. CPU
- ☒ b. Expansion slot ✓
- ☐ c. RAM
- ☐ d. Motherboard

The correct answer is: Expansion slot

## Question 35

Correct

Mark 1.00 out of 1.00

A computer with cache built in to the microprocessor plus memory built in to the processor packaging may have additional cache memory on the motherboard called:

Select one:

- ☒ a. L3 cache ✓
- ☐ b. L1 cache
- ☐ c. L2 cache
- ☐ d. L cache

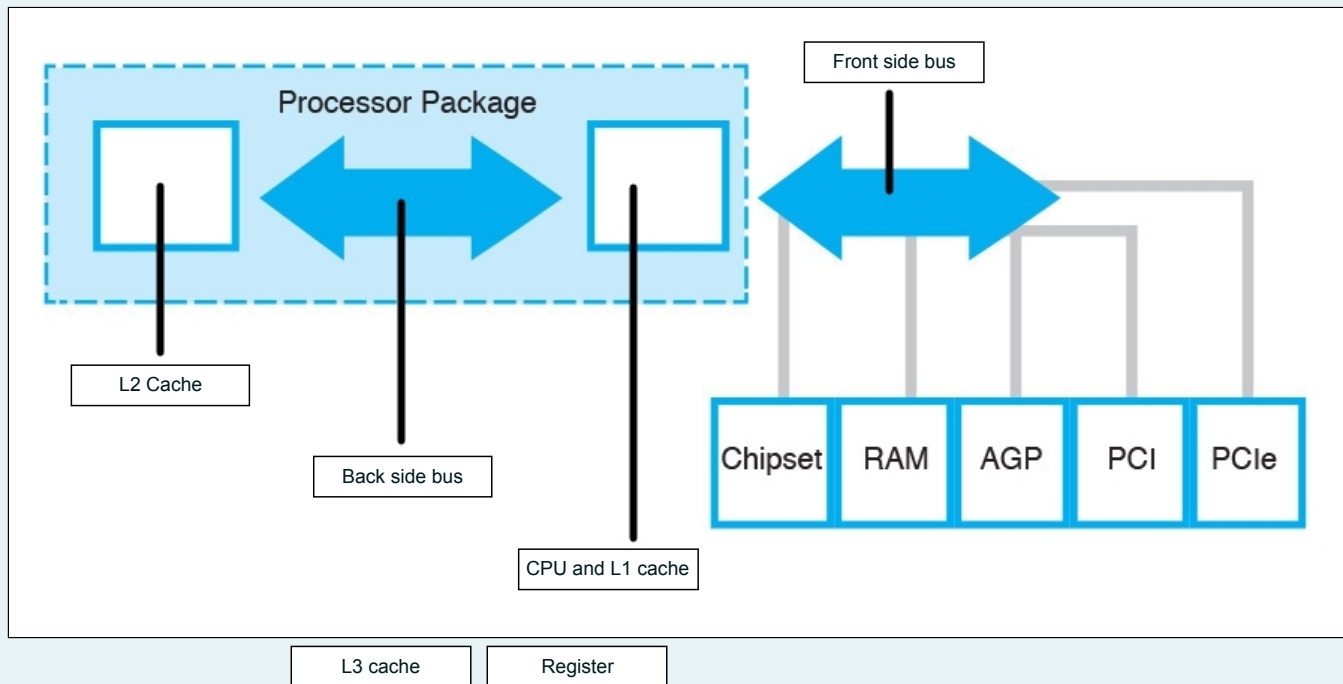
The correct answer is: L3 cache

## Question 36

Correct

Mark 5.00 out of 5.00

Label the processor connections diagram by dragging the most appropriate labels onto the image.



## Question 37

Partially correct

Mark 4.17 out of 5.00

Match the term with the most appropriate definition.

POST	Identifies, tests, and initializes basic hardware components	✓
UEFI	Allows settings to be viewed and managed	✗
IRQ	Number used for orderly device/port/CPU communications	✓
CMOS	Memory that requires a small amount of power	✓
I/O Address	Allows a device and a processor to exchange data	✓
Bootstrap	Locates an operating system and allows it to load	✓

The correct answer is: POST

→ Identifies, tests, and initializes basic hardware components, UEFI → Interface between the operating system and firmware, IRQ → Number used for orderly device/port/CPU communications, CMOS → Memory that requires a small amount of power, I/O Address → Allows a device and a processor to exchange data, Bootstrap → Locates an operating system and allows it to load

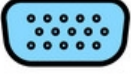
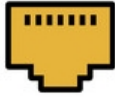





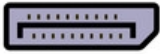

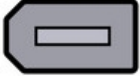


## Question 38

Correct

Mark 5.00 out of 5.00

Identify the computer ports by dragging the correct label onto the image.

				
VGA	RJ45	HDMI	Audio	PS/2
				
DVI	eSATA	DisplayPort	USB	FireWire

SATA

Thunderbolt

## Question 39

Correct

Mark 5.00 out of 5.00

Match the description with the BIOS Setup option.

Keyboard option	Numlock	✓
Used to enable port used for thumb drive	USB Configuration	✓
Power options	ACPI	✓
View CPU and motherboard temperature	Hardware Monitor	✓
Locate a lost or stolen device	Lojack	✓
Order of devices the computer looks for an OS	Boot Sequence	✓

The correct answer is: Keyboard option → Numlock, Used to enable port used for thumb drive → USB Configuration, Power options → ACPI, View CPU and motherboard temperature → Hardware Monitor, Locate a lost or stolen device → Lojack, Order of devices the computer looks for an OS → Boot Sequence

## Question 40

Correct

Mark 5.00 out of 5.00

Match the computer term to the most appropriate definition.

Reducing the clock frequency to reduce power consumption and/or heat.	Throttling	✓
Manufacturers include Motorola, Samsung, NVIDIA, and Qualcomm.	CPU	✓
Intel CPU processes two sets of instructions at the same time	Hyper-Threading	✓
Designed to increase the speed of processor operations.	Cache memory	✓
Connects cache located on the processor die and the processor.	Backside bus	✓
Temporarily stores calculations, data, or instructions inside the CPU.	Registers	✓

The correct answer is: Reducing the clock frequency to reduce power consumption and/or heat. → Throttling, Manufacturers include Motorola, Samsung, NVIDIA, and Qualcomm. → CPU, Intel CPU processes two sets of instructions at the same time → Hyper-Threading, Designed to increase the speed of processor operations. → Cache memory, Connects cache located on the processor die and the processor. → Backside bus, Temporarily stores calculations, data, or instructions inside the CPU. → Registers

## Question 41

Correct

Mark 5.00 out of 5.00

Match the part to the most appropriate description.

Hard drive	Large storage device	✓
BIOS	Contains firmware	✓
LCD	Laptop screen	✓
Adapter card	Desktop computer expansion	✓
Mouse	Input device	✓
RAM	Volatile memory	✓
Modem	Uses RJ11 port	✓
Power supply	Outputs DC	✓
Docking station	Laptop expansion	✓
Motherboard	Holds processor and memory	✓

The correct answer is: Hard drive → Large storage device, BIOS → Contains firmware, LCD → Laptop screen, Adapter card → Desktop computer expansion, Mouse → Input device, RAM → Volatile memory, Modem → Uses RJ11 port, Power supply → Outputs DC, Docking station → Laptop expansion, Motherboard → Holds processor and memory

