**Module 1 Knowledge Check**

# Which of the following accurately describes a binary bit?

* Could be one
* Corresponds to an on or off electrical signal

# Which of the following constitutes hardware?

* A Keyboard
* CPU
* A mouse

# An operating system is which type of software program?

* Primary

# Which of the following describes minicomputers?

* Have multiprocessing capabilities
* Can support multi-users
* Are used by organizations for billing and record keeping

# Which of the following describes microcontroller?

* Embedded computer

# Which of the following describes external and internal components of hardware that are connected to computer?

* Peripherals: input/output (I/O)

# Which of the following output devices are shown in images?

* Speaker
* Monitor
* Printer

# Which of the following is considered essential software, without which the computer cannot function?

* Operating Software(OS)

**Module 2 Knowledge Check**

# Which of the following safety measures should be followed before handling computer hardware?

* Disconnect all connected cables and components like power and network cabling
* Stand on antistatic mat

# Which of the following describes the purpose of toner and probe kit?

* Traces and identifies port that has not been labeled
* Identifies cable within group of cables
* Generates a signal that can be traced

**Module 3 Knowledge Check**

# Which of the following most accurately describes the CMOS backup battery component in a motherboard?

* Also called non-volatile basic input/output system (BIOS) memory and the real time clock (RTC)

# Which of the following types are integrated circuits that allow the communication between components ?

* Northbridge
* Southbridge

# Which of the following hardware must be removed or disconnected before the motherboard can be removed?

* Peripheral’s component interconnect expresses (PCI-E) cards
* Memory risers
* Dual inline memory modules(DIMMs)

# While installing a motherboard in a server a sequence of steps is followed in a specific order. Which is the correct first step?

* Install the CPU onto the new motherboard

**Module 4 Knowledge Check**

# Which of the following are function of the control unit?

* Guides other components
* Generated electrical signal

# Which of the following steps must be completed after the processor is lifted straight out of the pocket?

* Store the removed processor in a dust-free and static free package
* Clean the dust from the motherboard
* Remove the thermal paste with an alcohol wave

# When installing a new processor into a personal computer, which of the following should you use to avoid damaging the pins on the processor or socket?

* Zero insertion force

**Module 5 Knowledge Check**

# Could a computer function without storage?

* Yes but it could only view information

# Which of the following statements accurately describe primary storage ?

* It is considered volatile as it required a constant power source to retain data
* It is the computers working area used to run applications
* It can be directly accessed by the computer’s central processing unit

# Which of the following are the examples of secondary storage?

* Compact Discs
* External Hard drives

# In a computer which rea limits the number of size of programs computer can run?

* Memory

# If a home computer runs slowly when multiple programs are running what might help?

* Adding more memory

# Which of the following accurately describes online mass storage?

* Is accessed by the computer through I/O channels
* Retains data when power supply is interrupted

# When sourcing data, the CPU checks the cache first. If the data is not found in the cache what has occurred?

* A cache miss

# Which of the following statements accurately describe RAM?

* RAM uses random access to ensure that the CPU can directly access and retrieve data on demand, regardless the location
* RAM is main memory or primary memory storage in modern computers

# DRAM is a type of RAM that currently uses SIMM packaging in various formats, which are differentiated by variation in the IC architectures?

* False

# Which of the following are symptoms of faulty RAM?

* Programs operate more slowly after working a few hours
* The system restarts randomly

# Which of the following represent RAM troubleshooting steps?

* Inspect the memory modules and slot
* Remove new software you have installed
* Confirm RAM has been installed properly

**Module 5 Knowledge Check**

# Which of the following statements accurately describe a secondary storage device?

* It can hold permanent data
* It can be internal or external

# Which of the following describes USB flash drive?

* It is a removable and rewriteable storage device that retains data is flash memory chips

# Which of the following drives is available in range of 1TB -16TB?

* HDD

# Mateo is considering buying a new laptop because their old computer is too slow during video editing. Which of the following storage options is fastest?

* SSD: An SSD is much faster than an HDD and aids in power computing tasks, such as video processing

# Saanvi has started the procedure of inserting a HDD in to their laptop. Which of the following steps does Saanvi need to perform to protect against inadvertent shock during Hard drive installation?

* Remove the battery from the laptop

# What is the first step of troubleshooting SSD?

* Restart the system in safe mode to detect any malfunctions