

CompTIA A+ Certification Practice Test 1 (Exam 220-901)

▶ The main functionality of the Basic Input/Output System (BIOS) is to perform the initial hardware checks after the computer is powered on and start up the operating system.

✓

✓

 True (✓ Your answer)

False

✓

 You correctly answered this question.

▶ Which of the following resources can be used by an Operating System (OS) to communicate with hardware? (Select 2 answers)

Device Manager

Secure Shell (SSH)

✓

✓

 Device drivers (✓ Your answer)

✓

✓

 System BIOS (✓ Your answer)

Command-Line Interface (CLI)

✓

 You correctly answered this question.

▶ In modern PCs, the procedure of replacing BIOS contents is sometimes referred to as:

Hard boot

Overclocking

✓

✓

 Flashing the BIOS (✓ Your answer)

Direct memory access (DMA)

✓

 You correctly answered this question.

▶ BIOS updates are performed in order to: (Select all that apply)

✓

✓

 Repair damaged BIOS (✓ Your answer)

Fix physical hardware faults found in replaceable components inside the computer's case

✓

🔊

 Provide support for new types of attached hardware (✗ Missed)

✓

✓

 Fix known programming errors discovered in the current BIOS version (✓ Your answer)

🗨

 Your answer to this question is incorrect.

▶ Which of the following terms refer to BIOS types that can be updated without removing the BIOS chip from a motherboard? (Select 2 answers)

✓

✓

 EEPROM (✓ Your answer)

ROM

Plug and Play (PnP)

☐ ☐ ☐ EPROM

☒ ☒ Flash Memory (☒ Your answer)

☒ You correctly answered this question.

▶ Which Microsoft Windows OS utility can be used to view basic information about computer's BIOS?

☐ ☐ ☐ WINVER.EXE

☒ ☒ MSINFO32.EXE (☒ Your answer)

☐ ☐ ☐ Control Panel

☐ ☐ ☐ SERVICES.MSC

☒ You correctly answered this question.

▶ Power failure during BIOS upgrade can be the cause of irreversible damage to the computer system.

☒ ☒ True (☒ Your answer)

☐ ☐ ☐ False

☒ You correctly answered this question.

▶ After a normal system shutdown, when the computer is turned off, contents of the memory used to store BIOS settings are:

☐ ☐ ☐ Erased

☒ ☒ Retained (☒ Your answer)

☐ ☐ ☐ Stored in a page file

☐ ☐ ☐ Saved on a hard drive

☒ You correctly answered this question.

▶ Which of the acronyms listed below refers to a series of basic hardware diagnostic tests performed by the startup BIOS after the computer is powered on?

☐ ☐ ☐ IDE

☐ ☐ ☐ POTS

☐ ☐ ☐ QoS

☒ ☒ POST (☒ Your answer)

☒ You correctly answered this question.

▶ After replacing a modular hardware component inside computer case, the updated information about specific parameters of the new device can be stored in: (Select 2 answers)


☐ ☒ ☒ System BIOS (☒ Your answer)

☐ ☒ ☒ Flash memory (☒ Missed)

☐ ☐ ☐ Startup BIOS

☐ ☐ ☐ Secondary storage

☒ ☒ CMOS RAM (☒ Your answer)


 Your answer to this question is incorrect.

► After completing the initial diagnostics and assigning system resources, the startup BIOS program checks for information about secondary storage devices that might contain the OS. The list of devices and the order in which they should be checked can be found and arranged in the CMOS setup utility, and this option is commonly referred to as:

☐ ☐ ☐ Boot record

☐ ☐ ☐ Master Boot Record (MBR)



☐ ☐ ☐ Partition table

 ☒ ☒ ☒ Boot sequence (☒ Your answer)


☒ You correctly answered this question.


► In order to work, an integrated component such as Network Interface Card (NIC) on a newly assembled computer system may need to be first:

☐ ☐ ☐ Enabled in Windows Control Panel

 ☐ ☐  Updated with the latest driver in Device Manager (☒ Your answer)

☐ ☐ ☐ Checked against the Hardware Compatibility List (HCL)

☐ ☒  Enabled in the advanced BIOS settings menu (☒ Missed)

 Your answer to this question is incorrect.

► After launching Windows Virtual PC application technician receives error message stating that the Hardware-Assisted Virtualization (HAV) feature is not enabled on the computer. Which of the following steps might help in fixing this problem?

☐ ☐ ☐ Increasing the amount of physical RAM on the system

☐ ☐ ☐ Re-installation of the Windows Virtual PC application


 ☒ ☒ ☒ Getting into the CMOS setup utility and enabling the virtualization technology setting (☒ Your answer)

☐ ☐ ☐ Safe mode troubleshooting

☒ You correctly answered this question.

► The CMOS setup utility can be accessed by pressing:

☐ ☐ ☐ Reset button on the front panel of a computer case

 ☒ ☒ ☒ The key set by the motherboard manufacturer for accessing CMOS setup utility during boot (☒ Your answer)

☐ ☐ ☐ Del key during boot


☐ ☐ ☐ F1 key while logged in Windows

☒ You correctly answered this question.

► CMOS settings can be set to factory defaults by: (Select all that apply)

 ☒ ☒ ☒ Using a jumper that can be found on the motherboard (☒ Your answer)

☐ ☐ ☐ Changing settings in Windows Device Manager

 ☒ ☒ ☒ Reseating the CMOS battery on the motherboard (☒ Your answer)

 ☒ ☒ ☒ Choosing the default configuration option in the CMOS setup utility (☒ Your answer)

☒ You correctly answered this question.

► Which of the following answers refers to a firmware interface designed as a replacement for BIOS?

☒ ☒ UEFI (☒ Your answer)

☐ ☐ ☐ ACPI

☐ ☐ ☐ CMOS

☐ ☐ ☐ USMT

☒ You correctly answered this question.

► What kind of user permission restrictions can be set in BIOS? (Select all that apply)

☐ ☐ ☐ Group Policy settings

☐ ☐ ☐ Windows User Account Control (UAC) settings

☒ ☒ User password required to proceed when the computer is powered on (☒ Your answer)

☒ ☒ Password-restricted access to the BIOS setup utility (Supervisor password) (☒ Your answer)

☒ You correctly answered this question.

► Which of the following statements is true?

☐ ☐ ☐ Aborted BIOS update can be resumed by the transaction recovery system

☐ ☐ ☐ A common security measure is to store BIOS on a non-rewritable memory chip

☐ ☐ ☐ The process of BIOS update can be aborted and resumed at a later time

☒ ☒ Aborted BIOS update could render the computer unusable (☒ Your answer)

☒ You correctly answered this question.

► Which type of password provides the highest level of permissions in BIOS?

☐ ☐ ☐ root

☒ ☒ Supervisor (☒ Your answer)

☐ ☐ ☐ Administrator

☐ ☐ ☐ Power User

☒ You correctly answered this question.

► What is LoJack?

☐ ☐ Loopback adapter (✖ Your answer)

☐ ☒ Security feature used for locating stolen desktops, laptops, or tablets (✖ Missed)

☐ ☐ ☐ Connector standard

☐ ☐ ☐ RJ-11 plug

Your answer to this question is incorrect.

► Which of the following terms refers to a technology that allows for storing passwords, certificates, or encryption keys in a hardware chip?

☐ ☐ ☐ Access Control List (ACL)

☐ ☐ ☐ Encrypting File System (EFS)

☐ ☐ ☐ User Account Control (UAC)

☒ ☒ Trusted Platform Module (TPM) (☒ Your answer)

☒ You correctly answered this question.

► While trying to enable the entire drive encryption feature in Windows technician receives the following error message: "A compatible Trusted Platform Module (TPM) Security Device must be present on this computer, but a TPM was not found". Knowing that the system has a TPM chip installed, which of the following steps might help in solving this problem?

☐ ☐ ☐ Re-installation of the OS

☒ ☒ Enabling the TPM security feature in CMOS setup menu (☒ Your answer)

☐ ☐ ☐ Hard drive replacement

☐ ☐ ☐ Enabling the TPM security feature in Windows Control Panel

☒ You correctly answered this question.

► Which of the answers listed below describe(s) the features of UEFI? (Select all that apply)

☐ ☒ DRM support (✖ Missed)

☒ ☒ GUI mode (☒ Your answer)

☐ ☒ Mouse support (✖ Missed)

☐ Support for hard drives with a maximum of 4 partitions per drive (✖ Your answer)

☒ ☒ Secure boot (☒ Your answer)

☐ ☐ ☐ Support for partitions/hard drives of up to 2TB

☒ ☒ Network access (☒ Your answer)

Your answer to this question is incorrect.

► A computer supporting LoJack technology has two main components installed: an Application Agent residing in the operating system which sends tracking signals to the monitoring center allowing the law enforcement to locate and recover stolen device, and Persistence Module which restores the Application Agent and allows it to survive operating system re-installation or hard drive format. The highest level of security offered by LoJack can be achieved when Persistence Module resides in:

☐ ☐ ☐ Operating system

☐ ☐ ☐ Partition gap on the hard drive

☒ ☒ Computer's BIOS (☒ Your answer)

☐ ☐ ☐ USB key

☒ You correctly answered this question.

► A UEFI functionality designed to prevent the loading of malware and unauthorized OSs during system start-up is known as:

☐ ☐ ☐ LoJack

☐ ☐ ☐ Bitlocker

☒ ☒ Secure boot (☒ Your answer)

☐ ☐ ☐ Kerberos

☒ You correctly answered this question.

#### Your Final Report

Total marks	37
Total Questions	25
Questions correctly answered	20
Success ratio	80%
Marks secured	31
Percentage secured	83.78%

IT Security Training Courses



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