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Vendor: HP

Exam Code: HP2-Z12

Exam Name: Servicing HP Networking Products

Version: Demo

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Question No : 1

Which area of the network is considered the backbone?

- A. data center
- B. core
- C. distribution layer
- D. LAN access layer

Answer: B

Explanation:

The core is the backbone of the network, a central or common point where traffic flows between users, their workgroups, and shared resources. Most inter-workgroup traffic flows through the core, so it is important that networking devices located in the core introduce little or no delay (latency). Core switches are usually wire-speed, highly available devices.

Question No : 2

Which device forwards network traffic based only on Layer 2 information?

- A. router
- B. switch
- C. hub
- D. firewall

Answer: B

Question No : 3

Which switch is specifically designed for networks that require basic connectivity and have little or no IT support?

- A. fixed-port switch
- B. light Layer 3 switch
- C. modular switch
- D. unmanaged switch

Answer: D

Explanation:

Unmanaged switch—A switch that enables Ethernet devices to communicate but does not have a management interface. You simply connect the switch to other devices, and the network is operational. Unmanaged switches are intended for networks that require basic connectivity and have little or no IT support. They are cost-effective and offer intuitive and simple configuration.

Question No : 4

Which HP A Series switches provide Layer 2 functionality and a Web browser interface but no CLI?

- A. HP A5800 Series switches
- B. HP NJ2000G IntelliJack switches
- C. HP A3600-E1 Series switches
- D. HP A3100 Series switches

Answer: B

Explanation:

The HP IntelliJack Switch Series is designed to increase network connections and provide support for legacy analog and digital devices. Deployed at the access layer, these Layer 2 switches are connected to an RJ-45 jack and mounted on the wall. They can be powered by PoE or an optional 48V local power supply. The NJ1000G switch is an unmanaged switch; the NJ2000G switch is a Webmanaged switch. The NJ100G and NJ2000G switches provide the following:

Question No : 5

Several HP A Series switches are distinguished by a dual-personality (or combo) port. What is an accurate description of this port?

- A. It can accept either Ethernet Base-T cable or fiber optic cable
- B. It can accept either Ethernet Base-T cable or a small form-factor pluggable (SFP)

transceiver

C. It is a pair of ports. One accepts Ethernet Base-T cable and one accepts a small form-factor pluggable (SFP) transceiver. Both can be used simultaneously.

D. It is a pair of ports. One accepts Ethernet Base-T cable and one accepts a small form-factor pluggable (SFP) transceiver. Only one can be used at a time.

Answer: B

Explanation:

Dual-personality port—this port can be used as either a 10/100/1000 port or a Small Form Factor Port (SFP).

Question No : 6

You are troubleshooting a connection on an HP A Series switch that has one LED per-port. You want to know if the port is operating in the wrong duplex mode.

How do you use the LED to obtain relevant information?

A. Click the Mode button until the mode LED is blinking green and then check the port LED.

B. Click the Mode button until the mode LED is yellow and then check the port LED.

C. Check if the port LED is blinking, which indicates its duplex status (while its color indicates speed).

D. Check the color of the port LED, which indicates its duplex status (while its blinking indicates speed).

Answer: B

Explanation:

You can use the Mode button to check the duplex mode of each port.

Press the button until the Mode LED displays yellow.

In Duplex Mode, a Port LED displays green if the port is operating in full-duplex mode (meaning data can be transmitted in two directions simultaneously). The Port LED displays yellow if the port is operating in half-duplex mode (meaning data can be transmitted in one direction at a time).

Question No : 7

You are installing an HP A Series switch that requires a backup power supply as well as extra power for Power over Ethernet (PoE) devices. Which device should you connect to this switch?

- A. RPS 1200 A
- B. RPS 1000 A3
- C. RPS 800 A
- D. RPS500 A3

Answer: B

Explanation:

Customers can use one of three RPSs with A Series switches:

RPS 1000 A3

RPS 800 A

RPS 500 A3 In addition to providing redundancy, the RPS 1000 A3 provides additional PoE.

Question No : 8

The exhibit shows the Power and seven-segment LEDs of an HP A Series switch. What is the switch's status?

Exhibit:



- A. The switch has member ID 8 in the cluster.
- B. The switch has member ID 8 in the cluster, but its attempt to join the cluster has failed.
- C. The switch has failed the power on self test (POST) with ID 8.
- D. Port number 8 has failed the switch's power on self test (POST).

Answer: C

Question No : 9

You are installing an SFP transceiver in an HP A Series switch's SFP port. Which steps should you perform?(Select two.)

- A. Connect the fiber optic cable to the SFP transceiver before installing the transceiver.
- B. Slide the transceiver into the SFP port until the spring clips catch.
- C. Rotate the clasp, if present on the front of the transceiver, until it catches the knob.
- D. Press and hold the spring clips on the SFP port
- E. Press and hold the release button below the SFP port.

Answer: B,C

Explanation:

To install an SFP transceiver, complete the following steps:

1. Remove any fibers from the transceiver before installing it.
2. Pivot the clasp on the transceiver up until it catches a knob on the top of the transceiver.
3. Hold the transceiver on both sides and push the transceiver into the socket until it makes firm contact with the socket.

You should be able to feel the top and bottom clasp release catch.

Question No : 10

You are servicing an HP A Series switch, which is currently using a file call myconfig.cfg for the startup-config. You want to preserve your new configuration changes in the switch's startup config. Which command should you use?

- A. Write memory
- B. Save
- C. Save startup.cfg
- D. Copy running-config startup-config

Answer: D

Explanation:

Save with this command: copy running-config startup-config

Question No : 11

You check the startup-config on an HP A Series switch and find that the switch uses myconfig.cfg as the main startup-config and has no backup config. What happens if you use the undo startup savedconfiguration command?

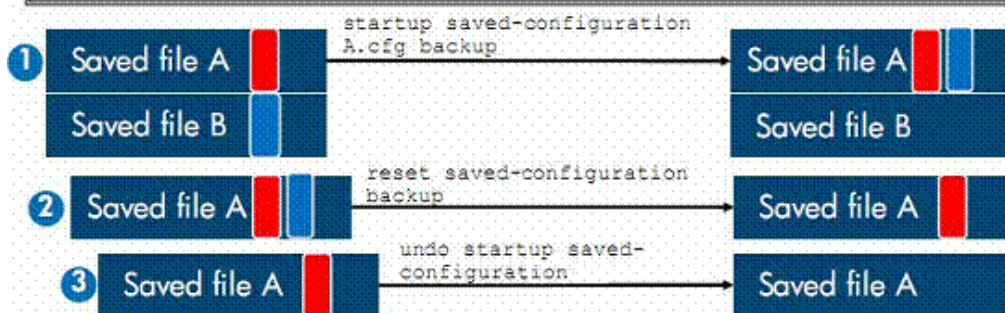
- A. The myconfig.cfg file is deleted, and the switch returns to factory default settings at the next reboot.
- B. The myconfig.cfg file becomes the backup startup-config, and the switch returns to factory default settings at the next reboot.
- C. The myconfig.cfg file becomes the backup startup-config, and is booted at the next reboot unless you set another main startup-config
- D. The myconfig.cfg file is retained in the switch's memory, but the switch returns to factory default settings at the next reboot

Answer: D

Explanation:

Reset to factory default settings but preserve the current files

```
<ASwitch> startup saved-configuration <main filename> backup
<ASwitch> reset saved-configuration backup
The saved configuration file will be erased. Are you sure? [Y/N]:y
<ASwitch> undo startup saved-configuration
```



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Sometimes you will need to revert a switch to its factory-default settings, but the customer still wants to preserve the current startup-config file (or files). You can meet this requirement with one command when the switch has no backup startup-config. Simply enter the undo saved configuration command, which removes the main attribute from the main startup-config file, but preserves the file itself. When the switch reboots, it loads the

factory default settings because no main or backup startupconfig is specified. The slide displays the proper commands for meeting this requirement when the customer's switch has both a main and a backup startup-config file. (The process is complicated slightly because there is no undo savedconfig backup command.) First, move the backup attribute from the backup startup-config to the main startupconfig by entering startup saved-configuration <filename> backup, specifying the filename of the main startup config. The former backup file is preserved in the flash memory but no longer plays a role in the boot process. The main startup-config file, file A, now has both the main and backup attributes, so you can enter reset saved-configuration backup to set the backup startupconfig to NULL without deleting the file. Finally, enter undo startup saved-configuration to take file A out of the boot process without deleting it. Now the switch will boot at the factory default settings, but the customer's configurations remain intact.

Question No : 12

You are troubleshooting an HP A Series switch. You attempt to log in to both the CLI and the Web browser interface in several different ways, but you are always prompted for credentials.

The customer tells you that the person who created the passwords is no longer employed by the company.

What can you do to access the switch?

- A. Use the failsafe credentials,adminfor username andpasswordfor password.
- B. Press the Reset and Clear buttons on the switch's front panel, holding them for at least 5 seconds, to clear the password
- C. Access the Boot ROM menu and bypass the configuration, starting the switch at factory default settings.
- D. Access the switch over a direct console connection, which always permits access without a password.

Answer: C

Explanation:

Bypass a Faulty Configuration

Question No : 13 DRAG DROP

Match the HP A Series switch user interface with the type of access that it controls.

Forms of Access

The diagram shows a large container with two rows. The top row has a box labeled 'access through the switch's console port' and a smaller box to its left labeled 'place here'. The bottom row has a box labeled 'access through a Telnet session' and a smaller box to its left labeled 'place here'. Below this container are four yellow boxes labeled 'CON', 'TTY', 'AUX', and 'VTY'.

Answer:

Forms of Access

The diagram shows the same container as in Question 13. The 'place here' box for 'access through the switch's console port' now contains the 'AUX' label. The 'place here' box for 'access through a Telnet session' now contains the 'VTY' label. The 'CON', 'TTY', 'AUX', and 'VTY' boxes below are still present.

Question No : 14

A faulty configuration on an HP A Series switch locked a customer out of the management interface. You bypass the configuration and gain access to the switch's CLI. Your manager asks you to send her the configuration to examine.

What must you do?

- A. Establish IP connectivity between the switch and a TFTP Server and issue the backup command
- B. Use the copy command to copy the configuration to your management station.
- C. Establish IP connectivity between the switch and your management station and use the save command to save the configuration.
- D. Use the saved-configuration command to select the startup-config and save it out to your management station.

Answer: A

Explanation:

Once you have the TFTP server running, enter this command from user view (you need system level access) to back up the startup-config:

```
<ASwitch> backup startup-configuration to <server address> [<file>]
```

Replace <server address> with the TFTP server's IP address (the address on your management station if you installed the server there). If you enter a filename, use a .cfg extension to ensure that the configuration can be restored to the switch when necessary. If you decide not to enter a filename, the file is stored on the TFTP server under the name specified for the main startup-config file on the switch.

For the example shown in the slide, you enter:

```
<ASwitch> backup startup-configuration to 10.1.67.20 ASwitch_051610.cfg
```

Question No : 15

You log in to an HP A Series switch over a console session in order to establish IP connectivity between the switch and the rest of the network.

What is the minimum user privilege level needed to complete this task?

- A. Operator
- B. Monitor
- C. System
- D. Manage

Answer: C

Explanation:

System commands, which are read-write, primarily relate to configuring the services that

the switch provides. For example, configuring IP settings, port settings, routing protocols, and so forth, are system level commands. Some commands related to saving configuration changes are also found at the system level.

Question No : 16

Which HP E Switch Series is specifically designed to be deployed in a data center?

- A. E4200vl
- B. E6200yl
- C. E6600
- D. E8200zl

Answer: C

Explanation:

The HP E6600 Switch Series consists of managed, Layer 3/4 switches. Built on the HP ProVision ASIC, these switches are optimized for the server access layer in a data center. They have front-to-back airflow so that they can be installed at the top of a server rack. To provide uninterrupted service, the switches support redundant, hot-swappable power and redundant, hot-swappable fans. The E6600 switches also perform Layer 3 routing, supporting RIP, OSPF, and static routes. In addition, they provide advanced security features and QoS.

Question No : 17

How can you check the status of the ports that are providing Power over Ethernet (PoE) on an HP E2610-PWR switch?

- A. Use the Mode button to select PoE and then view the port Link and Mode LEDs
- B. Use the Port Locator button to select PoE and then view the port Status and Link LEDs.
- C. View the port PoE LED.
- D. Use the switch's PoE LED and the PoE LED for each port.

Answer: A

Explanation:

To optimize the amount of information that can be displayed for each port in the limited space available, many switches rely on multiple-display LEDs, or Mode LEDs.

These LEDs can indicate more than one port condition and are controlled by the *Mode Select* button. Pressing the *Mode Select* button changes the setting of the Mode LED and the condition reported by the LED. PoE—If the PoE indicator LED is lit, the Link and Mode LEDs indicate PoE status:

Link LED

On—PoE is enabled on the port.

Off—PoE is disabled on the port.

Slow Blinking—Internal PoE fault on this port.

Fast Blinking—The port is denied PoE power or has an external load fault.

Mode LED

On—PoE power is being supplied on this port.

Off—PoE is not being supplied on this port.

Question No : 18

Which E Series switches require two power supplies to be completely operational?(Select two.)

- A. HP E4200 vl switch
- B. HP E5406 zl switch
- C. HP E5412 zl switch
- D. HP E2900 al switch
- E. HP E8212 zl switch

Answer: C,E

Explanation:

Some HP modular switches, despite their redundancy options, are operational with only one functioning power supply source.

The E5412 zl, and E8212 zl switches, however require at least two installed and functioning power supplies, or the switches will not be fully operational.

Question No : 19

You are installing a redundant power supply in an HP E8212 zl switch. Which procedures are recommended when installing the new power supply?(Select two.)

- A. Remove the copper RFI shielding.
- B. Attach the new power supply to a different AC power source than the existing power supply to provide true redundancy.
- C. Tighten the retaining screws on the new power supply until they are snug but not over-tight.
- D. Connect the redundant power supply to the AC power source before installing it in the switch.
- E. Remove the grounding tap from the console port before installing the power supply.

Answer: B,C

Question No : 20

You have been sent to a customer site to check an HP E8212 zl switch. When you arrive, you notice that the Fault and Fan Status LEDs are flashing.

What is the most likely cause of this LED behavior?

- A. The cooling fan is no longer functional
- B. The switch is brand new and needs to have the most current firmware installed.
- C. The external power supply has failed, causing the fan to malfunction.
- D. The switch has failed its self-test

Answer: C

Explanation:

Power status LED—This LED is on if the power supply is providing power to a connected E5400 zl switch. It is off if there is not a valid connection to the E5400 zl or E8212 zl switch. If the LED is flashing orange, there is a fault condition on the corresponding power supply.

Question No : 21

You are entering the operator password to access an HP E8212 zl switch's CLI. Which context do you enter?

- A. Switch#
- B. Switch (config)#
- C. Switch:
- D. Switch>

Answer: D

Explanation:

Operator

The operator level is identified by the > in the switch prompt:

HP Switch>

Question No : 22

Which management session should you use for secure communications between your management station and an HP E8212 zl switch?(Select two.)

- A. Web browser interface through HTTP
- B. CLI through a Telnet session
- C. menu interface through a Telnet session
- D. Web browser interface through HTTPS
- E. menu interface through HTTPS
- F. CLI through an SSH session

Answer: D,F

Question No : 23

You have been dispatched to a customer site by the response center. You need to connect your laptop to the console port on the customer's HP E6600 switch to access the CLI. Which applications can you use to accomplish this?(Select two.)

- A. TFTPd32
- B. Sam Spade network utility
- C. HyperTerminal

- D. Solarwind Subnet Calculator
- E. TeraTerm Pro

Answer: C,E

Question No : 24

You are sent by the response center to install an HP E2610 switch at a customer site. After you install the switch in the rack and power it on, you connect to the CLI through the console port. You then assign the switch an IP address of 10.1.1.20/24.

When you enter these commands, which part of the switch will be dynamically updated?

- A. firmware image
- B. non-volatile RAM
- C. startup-config
- D. running-config

Answer: D

Explanation: Explanation/Reference:

The screenshot shows two CLI sessions on an HP Switch. The first session shows the startup configuration for Vlan 1, including the IP address dhcp-bootp. The second session shows the running configuration for Vlan 1, including the IP address 10.1.1.8 and default gateway 255.255.255.0. Annotations with red arrows point to the commands and their effects: 'show config' points to the startup configuration (labeled 'Configuration stored in non-volatile memory'), 'show running-config' points to the running configuration (labeled 'Configuration stored in dynamic memory'), and the IP address 10.1.1.8 in the running config is labeled 'IP address change since last boot'.

C:\Documents and Settings\usernwz1\Desktop\1.PNG

Question No : 25

You are configuring the IP address and default gateway for an HP E2910 al switch from the CLI. After you finish entering the configuration, you issue the write memory command.

What does this command do?

- A. Copies the startup-config to the running-config
- B. Saves the startup-config to a TFTP server
- C. Copies the running-config to non-volatile RAM
- D. Saves the running-config to a TFTP server

Answer: A

Question No : 26

You are installing an HP E5406 zl switch in a customer's network. The network administrator tells you that she wants some staff members to have read-only access to the switch.

Which privilege level should those staff members be assigned?

- A. operator
- B. manager
- C. privileged EXEC
- D. user EXEC

Answer: A

Explanation:

Operator

The operator level is identified by the > in the switch prompt:

HP Switch>

The commands available at the operator level are essentially a subset of those available at the manager level. The operator level enables read-only access and allows the user to view statistics by using the show command or a menu. Operator users also can use link-test and ping commands to perform Layer 2 and Layer 3 connectivity tests from the CLI or the menu interface.

(You will learn how to access the menu interface in the next section in this module.)

Question No : 27

Which feature does the HP V1910 switch offer that no other HP V Series switches do?

- A. Gigabit connectivity
- B. A CLI
- C. PoE
- D. static routing

Answer: D

Explanation:

The HP V1910 S w i t c hSeries enhances the functionality with more features and the ability to manage these features through a Web browser interface.

First, you will look at the Gigabit capable switches in this series, the V1910 switches. Shown in the slide, are three models in this series, the V1910 -16G, V1910 -24G, and V1910 -48G, with 16, 24, and 52 10/100/1000 ports respectively. Each switch also provides four open SFP ports in which customers can install various mini- GBICs for additional connectivity options.

These V1910 switches are all Light Layer 3 switches; that is, each supports multiple IP addresses and several static routes. They also provide basic access control lists (ACL), making them the ideal switch for an SMB that needs to divide users into different subnets.

Question No : 28

Which HP V Series switch can connect to a redundant power supply (RPS)?

- A. V1910-24G-PoE (365W)
- B. V1905-24-PoE
- C. V1810-8G
- D. V1410-8G

Answer: A

Explanation:

HP V Series External RPS

The HP V1919-24G-PoE(365W) switchcan receive power from a HP RPS 1000 A3 Redundant Power Supply, one of the RPSs that you already learned about with the A Series switches. The RPS 1000 A3 is the only RPS supported for this switch. You must also use the correct cable to connect the switch to the RPS; the slide displays the specifications. The switch has both an AC and DC power input. You can connect one or both, for redundancy. When operating at is capacity, the V1910 -24G-PoE(365W) switch draws:

AC power:

- 523 W for system power
- 365 W for PoE

DC power

- 92 W for system power
- 740 W for PoE

The V1910 -24G-PoE(365W)switch provides an RPS Status LED directly above the Mode button and Mode Status LED. Look at this LED to discover whether the switch is successfully receiving power from the RPS (LED glows solid green) or whether the switch is not receiving power or the DC input is abnormal (LED is off).

Question No : 29

Using the hardware, how do you reset an HP 1700 Series switch to its factory default settings?

- A. Press the Reset button and hold for five seconds
- B. Press the Reset and Clear buttons at the same time and hold for five seconds.
- C. Power off the switch, connect port 1 to port 2, and power the switch back on.
- D. Remove the power supply without turning off the power switch

Answer: C

Explanation:

Reset HP V1700 Series Switches to Factory Default Settings

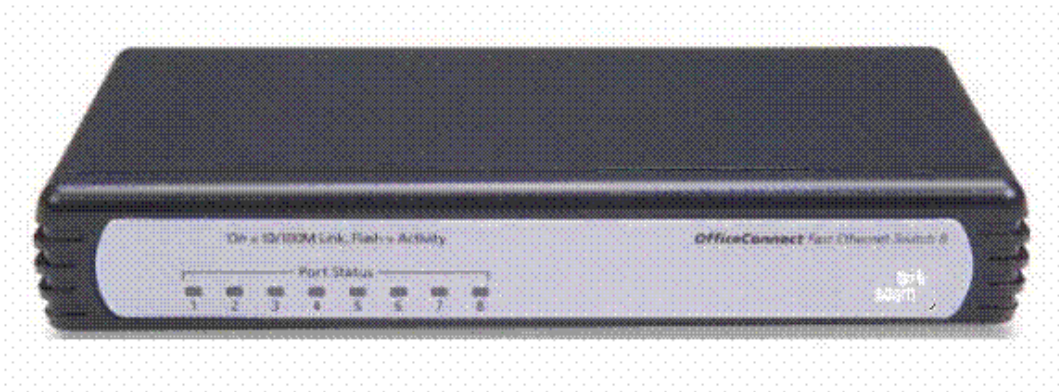
You can also initiate a hardware reset to factory defaults on the HP V1700 Series switches although these switches have no Reset button. Follow these steps:

- 1.Remove the switch's power adapter.
- 2.Remove all cables.
- 3.Connect port 1 to port 2.
- 4.Reconnect the power adapter.
- 5.Wait at least 40 seconds before disconnecting port 1 from port 2.

Question No : 30 HOTSPOT

On HP V1405 C and V1405 Desktop switches, click the location that is illuminated to

indicate that the switch is powered on.



Answer:



Question No : 31

Sometimes you need to support an HP V Series switch on which the power LED does not illuminate. Typically, you check power cords and the power outlet. Which additional step might apply to HP 1810G-8 switches only?

- A. checking the switch's PoE source
- B. checking the switch's redundant power supply
- C. checking the switch's external power supply
- D. checking whether the model is AC or DC

Answer: A

Explanation:

Procedure for Power Failures on PoE-Powered HP V1810G8 Switches

HP V1810G-8 switches can be powered by PoE instead of by a traditional power source.

When they are, you must use a different procedure to troubleshoot. First, use a known

good RJ-45 cable to connect the V1810G-8 port 1 (the port that receives PoE) to the PoE power source (which might be an injector or a PoE switch). If this does not solve the problem, check the PoE source and verify that it has enough power to supply to the V1810G switch (15W). Finally, if the PoE source is a switch, have the switch administrator check the PoE priority of the port that connects to the V1810G-8. The priority must be high enough to ensure that the switch will deliver power to the V1810G-8. Once you are certain that the PoE source is delivering the proper amount of power, check the V1810G-8 Power LED. If it is still not illuminated, the switch has failed. Replace it.

Question No : 32

Which HP V Series switches permit four different levels of access to their Web browser interface?

- A. HP V1810 switches
- B. HP V1700 switches
- C. HP V1910 switches
- D. HP V1905 switches

Answer: C

Explanation:

V1910 Series switches divide the Web browser interface, which offers full management features, into four access levels. But a single password provides access to the limited CLI.

Question No : 33

You are servicing an HP V1905-8-PoE switch and need to access the CLI. What should you consider in this situation?

- A. Unlike on other V Series switches, you must set your terminal session software's baud rate to 115200
- B. You might need a password to access the CLI's privileged EXEC mode.
- C. You can reach the switch on Telnet, but the switch has no console port
- D. The switch does not support a management IP address, so you must access the CLI

through the console port.

Answer: B

Question No : 34

Which IEEE 802.11 standard offers maximum theoretical data rates up to 600 Mbps?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

Answer: D

Explanation:

802.11n is a standard for high-speed wireless connections.

This standard offers maximum theoretical data rates up to 600 Mbps. 802.11n can operate in either the 2.4 GHz or the 5 GHz band and is compatible with both 802.11b/g and 802.11a.

Question No : 35

You are installing an HP A-WA2220 AP for a customer, and you need to determine whether the new AP has been recognized by the device that manages it.

Which device can control this AP?

- A. HP A5120 Series switch
- B. HP A-MSR20-12W Series router
- C. HP A-WX5002 Access Controller
- D. HP A-MSR920W Series router

Answer: C

Question No : 36

On several HP A Series wireless devices, you can initiate a hardware reset to factory default settings by pressing a Reset button. On others, you must initiate the reset from the software.

Which A Series wireless devices support a hardware reset?

- A. A-WA2110 AP
- B. A-WA2220 AP
- C. Wireless Unified LAN Controller A3000-24G-PoE
- D. A5800 Access Controller Module

Answer: A

Explanation:

All of the APs, except the A-WA 2110 AP, have a Reset button, which you can use to return the AP to factory default settings. However, the controllers and modules do not have such a button. They are returned to factory default settings using a software reset, which will be covered in the next module in this course.

Question No : 37

On the HP Wireless Unified LAN Controller A3000G, what does the LED marked Mode indicate?

- A. The type of information the controller's port LEDs are currently reporting
- B. The status of the controller's module
- C. The status of the controller's PoE functionality
- D. Whether the Unified LAN controller is functioning as an Ethernet switch or as a wireless controller

Answer: C

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