



Free Questions for 100-490 by vceexamstest

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Question 1

Question Type: MultipleChoice

What are the choices for modes of operation when deploying Cisco Catalyst 3850 Series switches?

Options:

- A- Active mode and Standby mode
- B- Install mode and Bundle mode
- C- Boot mode and Run mode
- D- Exec mode and User mode

Answer:

B

Explanation:

When deploying Cisco Catalyst 3850 Series switches, there are two modes of operation to choose from: Install mode and Bundle mode. Install mode is the default mode for the switch and uses a package-provisioning file named packages.conf to boot the switch. It allows for a more complete set of features and requires fewer resources upon boot¹. Bundle mode, on the other hand, is similar to using

traditional monolithic Cisco IOS images to boot the switch. It consumes more memory than Install mode because the packages are extracted from the bundle and copied to the RAM2. Cisco recommends using Install mode for operation due to its efficiency and feature set2.

Question 2

Question Type: MultipleChoice

Which type of memory is used to store Cisco IOS Software permanently?

Options:

A- NVRAM

B- flash

C- SRAM

D- DRAM

Answer:

B

Explanation:

The type of memory used to store Cisco IOS Software permanently is flash memory. Flash memory is non-volatile, meaning it retains its content even after the device is powered down or restarted. It is commonly used in Cisco devices to store one or more Cisco IOS software images, as well as other files such as backup configuration files. This allows the device to reload the operating system after a reboot without the need to retransfer the IOS image.

Question 3

Question Type: MultipleChoice

Which type of transceiver module is used for 40 Gigabit Ethernet connectivity?

Options:

A- SFP+

B- GBIC

C- QSFP+

D- XFP

Answer:

C

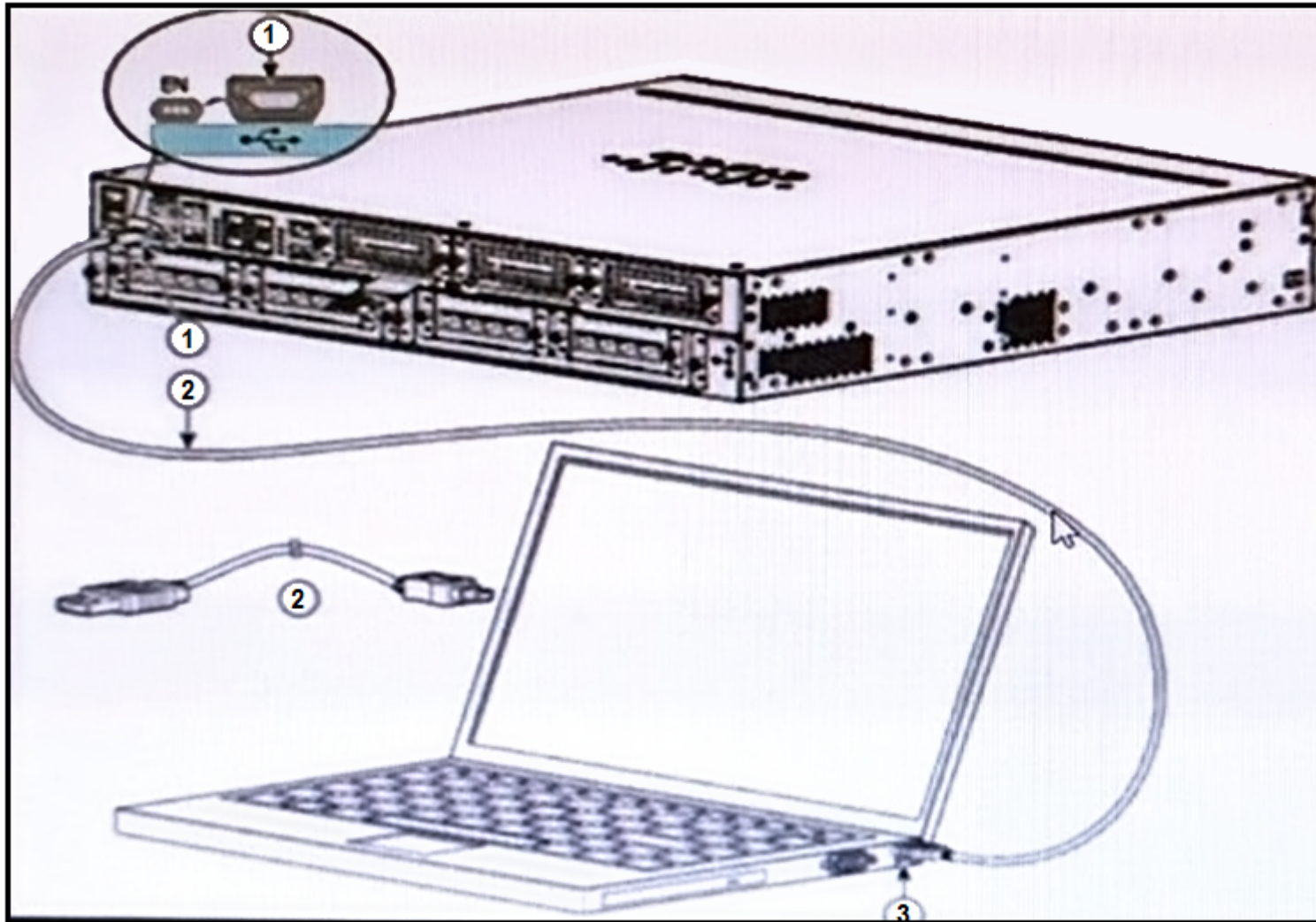
Explanation:

For 40 Gigabit Ethernet connectivity, the type of transceiver module used is QSFP+ (Quad Small Form-Factor Pluggable Plus). QSFP+ modules are designed to carry 40-Gigabit Ethernet signals over fiber-optic or copper networking cables. They provide high-density and low-power 40 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider applications. QSFP+ modules are an evolution of the SFP+ (Small Form-Factor Pluggable Plus) modules, offering four times the bandwidth capacity¹.

Question 4

Question Type: MultipleChoice

Refer to the exhibit.



Which two statements about the hardware components are true? (Choose two.)

Options:

- A- 2 is an RJ-45 to USB Type A console cable.
- B- 3 is a USB Type A port.
- C- 3 is a USB 5-pin mini USB Type B port.
- D- 1 is a USB Type A port.
- E- 2 is a USB 5-pin mini USB Type B to USB Type A console cable.

Answer:

C, E

Explanation:

The image provided shows a networking device connected to a laptop via a console cable. Based on the visual indicators and standard port designs:

C . 3 is a USB 5-pin mini USB Type B port: The port labeled "3" on the laptop is smaller than a standard USB Type A port, which suggests it is a mini USB Type B port, commonly used for connecting to networking devices for console access.

E . 2 is a USB 5-pin mini USB Type B to USB Type A console cable: The cable labeled "2" has one end that fits into the mini USB Type B port on the laptop (as identified in point 1), and the other end, which is not clearly visible in the image, is inferred to be a USB Type A connector that would typically connect to a computer's USB port.

Question 5

Question Type: MultipleChoice

Which two features are associated with single-mode fiber-optic cable? (Choose two.)

Options:

- A- consists of a single strand of glass fiber
- B- has higher attenuation than multimode fiber
- C- carries a higher bandwidth than multimode fiber
- D- costs less than multimode fiber
- E- operates over less distance than multimode fiber

Answer:

A, C

Explanation:

The features associated with single-mode fiber-optic cable include:

Consists of a single strand of glass fiber: Single-mode fiber uses a single core (strand) of glass fiber to transmit light signals. This core is thinner than that of multimode fiber, allowing for greater transmission distances.

Carries a higher bandwidth than multimode fiber: Single-mode fiber can carry higher data rates over longer distances compared to multimode fiber. It is commonly used in long-haul communication links and high-speed networks.

Single-mode vs. Multimode Fiber

Fiber Optic Cable Types

Question 6

Question Type: MultipleChoice

Which two pairs of LAN Ethernet devices use an RJ-45 straight-through cable? (Choose two.)

Options:

A- switch-to-switch

B- switch-to-router

C- switch-to-hub

D- router-to-router

E- switch-to-server

Answer:

B, E

Explanation:

Questions no : 12 Verified Answer: = B. switch-to-router, E. switch-to-server

Switch-to-Router: A switch connects devices within a network by using MAC addresses to forward data to the correct destination. A router, on the other hand, connects multiple networks and uses IP addresses to determine the best path for the data packets. Connecting a switch to a router requires a straight-through cable because they are different types of devices¹².

Switch-to-Server: Servers are the powerful computers that provide resources, data, services, or programs to the client machines in the network. When connecting a switch to a server, a straight-through cable is used because the switch and the server are different types of devices with different functions within the network¹².

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