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# Cisco Certified Support Technician (CCST) Networking Sample Questions (Q38-Q43):

#### **NEW QUESTION #38**

Move the security options from the list on the left to its characteristic on the right. You may use each security option once, more than once, or not at all.

Note: You will receive partial credit for each correct answer.

| Move the security options from the list on the left to its cha<br>Note: You will receive partial credit for each correct answer | aracteristic on the right. You may use each security option once, more |                 |
|---|--|-----------------|
| Security Options  | Characteristics  |                 |
| WEP   | Uses a RADIUS server for authentication                                | Security Option |
| WPA2-Personal   | Uses a minimum of 40 bits for encryption                               | Security Option |
| WPA2-Enterprise   | Uses AES and a pre-shared key for authentication                       | Security Option |
| 8   |  |                 |

#### Answer:

#### Explanation:

Move the security options from the list on the left to its characteristic on the right. You may use each security option once, more than once, or not at all.

Note: You will receive partial credit for each correct answer.

| Security Options | Characteristics  |
|------------------|--|
| WEP              | Uses a RADIUS server for authentication WPA2-Enterprise        |
|                  |  |
| WPA2-Personal    | Uses a minimum of 40 bits for encryption WEP                   |
|                  |  |
| WPA2-Enterprise  | Uses AES and a pre-shared key for authentication WPA2-Personal |
|                  |  |
| CISCO            |  |

#### Explanation

The correct matching of the security options to their characteristics is as follows:

- \* WPA2-Enterprise: Uses a RADIUS server for authentication
- \* WEP: Uses a minimum of 40 bits for encryption
- \* WPA2-Personal: Uses AES and a pre-shared key for authentication

Here's why each security option matches the characteristic:

- \* WPA2-Enterprise uses a RADIUS server for authentication, which provides centralized Authentication, Authorization, and Accounting (AAA) management for users who connect and use a network service.
- \* WEP (Wired Equivalent Privacy) is an outdated security protocol that uses a minimum of 40 bits for encryption (and up to 104 bits), which is relatively weak by today's standards.
- \* WPA2-Personal (Wi-Fi Protected Access 2 Personal) uses the Advanced Encryption Standard (AES) for encryption and a pre-shared key (PSK) for authentication, which is shared among users to access the network.

These security options are essential for protecting wireless networks from unauthorized access and ensuring data privacy.

# **NEW QUESTION #39**

A help desk technician receives the four trouble tickets listed below.

Which ticket should receive the highest priority and be addressed first?

- A. Ticket 4: Two users report that wireless access in the cafeteria has been down for the last hour.
- B. Ticket 1: A user requests relocation of a printer to a different network jack in the same office. The jack must be patched and made active.
- C. Ticket 2: An online webinar is taking place in the conference room. The video conferencing equipment lost internet access.
- D. Ticket 3: A user reports that response time for a cloud-based application is slower than usual.

# Answer: C

#### Explanation:

When prioritizing trouble tickets, the most critical issues affecting business operations or high-impact activities should be addressed

first

Here's a breakdown of the tickets:

Ticket 1: Relocation of a printer, while necessary, is not urgent and does not impact critical operations.

Ticket 2: An ongoing webinar losing internet access is critical, especially if the webinar is time-sensitive and involves multiple participants.

Ticket 3: Slower response time for a cloud-based application is important but typically not as urgent as a complete loss of internet access for a live event.

Ticket 4: Wireless access down in the cafeteria affects users but does not have the same immediate impact as a live webinar losing connectivity.

Thus, the correct answer is B. Ticket 2: An online webinar is taking place in the conference room. The video conferencing equipment lost internet access.

Reference: =

IT Help Desk Best Practices

**Prioritizing IT Support Tickets** 

#### **NEW QUESTION #40**

What is the purpose of assigning an IP address to the management VLAN interface on a Layer 2 switch?

- A. To enable the switch to act as a default gateway for the attached devices
- B. To enable the switch to resolve URLs for the attached the devices
- C. To enable access to the CLI on the switch through Telnet or SSH
- D. To enable the switch to provide DHCP services to other switches in the network

#### Answer: C

#### Explanation:

The primary purpose of assigning an IP address to the management VLAN interface on a Layer 2 switch is to facilitate remote management of the switch. By configuring an IP address on the management VLAN, network administrators can access the switch's Command Line Interface (CLI) remotely using protocols such as Telnet or Secure Shell (SSH). This allows for convenient configuration changes, monitoring, and troubleshooting without needing physical access to the switch1.

Reference: =

- \* Understanding the Management VLAN
- \* Cisco VLAN Configuration Guide
- \* Remote Management of Switches

Assigning an IP address to the management VLAN interface (often the VLAN 1 interface by default) on a Layer 2 switch allows network administrators to remotely manage the switch using protocols such as Telnet or SSH. This IP address does not affect the switch's ability to route traffic between VLANs but provides a means to access and configure the switch through its Command Line Interface (CLI).

- \* A: The switch does not act as a default gateway; this is typically a function of a Layer 3 device like a router.
- \* B: The switch does not resolve URLs; this is typically a function of DNS servers.
- \* C: The switch can relay DHCP requests but does not typically provide DHCP services itself, this is usually done by a dedicated DHCP server or router.

Thus, the correct answer is D. To enable access to the CLI on the switch through Telnet or SSH.

Reference: =

- \* Cisco VLAN Management Overview
- \* Cisco Catalyst Switch Management

#### **NEW QUESTION #41**

How does low bandwidth affect network performance?

- A. Decreases latency
- B. Increases latency
- C. Has no effect on latency
- D. Increases throughput

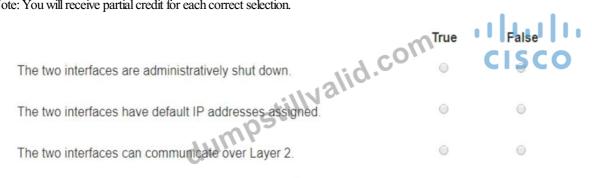
#### Answer: B

## **NEW QUESTION #42**

You purchase a new Cisco switch, turn it on, and connect to its console port. You then run the following command:



For each statement about the output, select True or False. Note: You will receive partial credit for each correct selection.



#### Answer:

# Explanation:

| e False |  |
|---------|--|
|         |  |
|         |  |
|         |  |
| -<br>I  |  |
|         |  |

## Explanation:

- \* The two interfaces are administratively shut down:
- \* False: The output does not show any "shutdown" command under the interfaces, which would indicate that they are administratively shut down. Therefore, they are likely in their default state, which is administratively up.
- \* The two interfaces have default IP addresses assigned:
- \* False: The output does not show any IP address configuration. In the default state, interfaces do not have IP addresses assigned unless explicitly configured.
- \* The two interfaces can communicate over Layer 2:
- \* True: By default, interfaces on a switch are Layer 2 interfaces capable of forwarding Ethernet frames. As there is no configuration provided that changes this, it can be assumed they can communicate over Layer 2.
- \* Interface Status: The absence of the "shutdown" command means the interfaces are not administratively shut down.
- \* IP Address Assignment: There is no evidence in the output that IP addresses have been assigned to the interfaces, which would typically be shown as "ip address" entries.
- \* Layer 2 Communication: Switch interfaces in their default state operate at Layer 2, enabling them to forward Ethernet frames and participate in Layer 2 communication.

# References:

- \* Cisco IOS Interface Configuration: Cisco Interface Configuration
- \* Understanding Cisco Switch Interfaces: Cisco Switch Interfaces

## **NEW QUESTION #43**

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