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Cisco CCST-Networking Exam Syllabus Topics:

Topic	Details
Topic 1	• Addressing and Subnet Formats: For aspiring Cisco network technicians, the CCST Networking exam evaluates the ability to compare private and public IP addresses, identify IPv4 addresses and subnet formats, and recognize IPv6 addresses and prefix formats. This ensures they can manage and configure network addressing effectively.

Topic 2	• Infrastructure: The Cisco Certified Support Technician (CCST) Networking exam measures network technicians' skills in identifying Cisco device status lights, using network diagrams to attach cables, recognizing various network ports. It also focuses on explaining basic routing concepts and understanding basic switching concepts.
Topic 3	• Security: Aspiring Cisco Network technicians taking the CCST-Networking Exam need to describe firewall operations, foundational security concepts, and configure basic wireless security on home routers (WPAx). This ensures they can implement and understand essential security measures within a network.
Topic 4	• Endpoints and Media Types: This topic in the CCST-Networking exam covers the identification of common cables and connectors used in LANs, distinguishing Wi-Fi, cellular. Additionally, it focuses on wired technologies, describing endpoint devices, and demonstrating connectivity setup and checks across multiple operating systems (Windows, Linux, Mac OS, Android, and Apple iOS).

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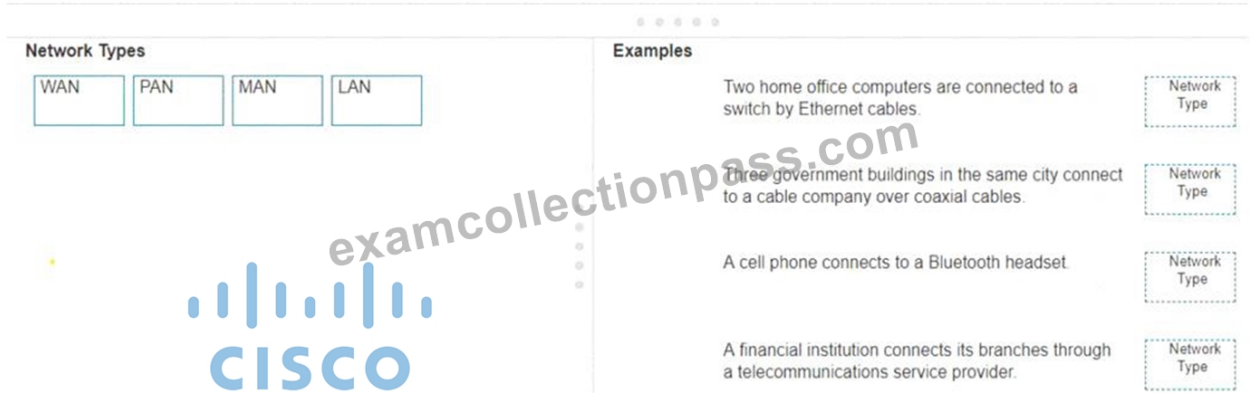
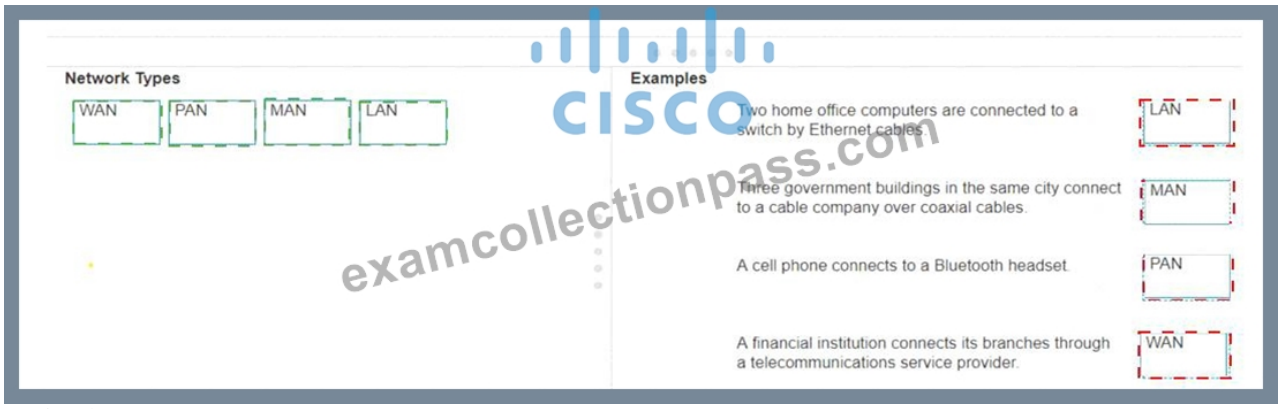
Cisco Certified Support Technician (CCST) NetworkingExam Sample Questions (Q37-Q42):

NEW QUESTION # 37
Move each network type from the list on the left to the correct example on the right.



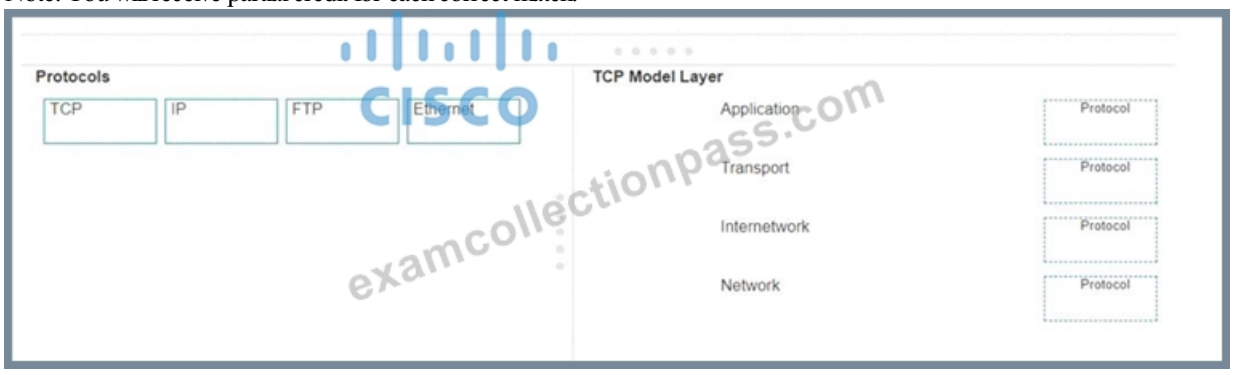
Answer:

Explanation:



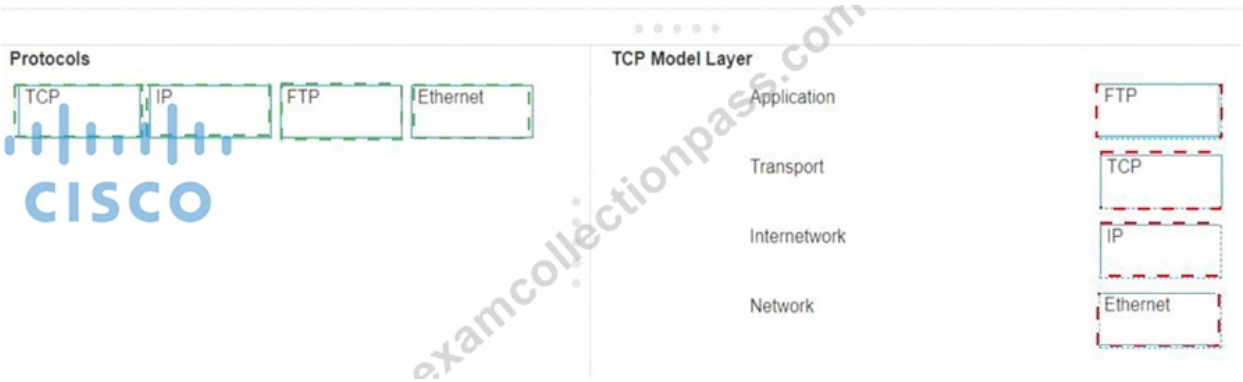
Explanation:
* Two home office computers are connected to a switch by Ethernet cables.
* Network Type: LAN (Local Area Network)
* Explanation: A LAN connects devices within a limited area such as a home, office, or building, using Ethernet cables or Wi-Fi.
* Three government buildings in the same city connect to a cable company over coaxial cables.
* Network Type: MAN (Metropolitan Area Network)
* Explanation: A MAN connects networks across a city or campus, often using fiber optic or coaxial cables.
* A cell phone connects to a Bluetooth headset.
* Network Type: PAN (Personal Area Network)
* Explanation: A PAN connects devices within a personal workspace, typically using wireless technologies like Bluetooth.
* A financial institution connects its branches through a telecommunications service provider.
* Network Type: WAN (Wide Area Network)
* Explanation: A WAN connects multiple LANs over long distances, often using leased lines or satellite links provided by telecommunications companies.
* LAN (Local Area Network): Used for connecting devices within a small geographical area such as a
* single building or home.
* MAN (Metropolitan Area Network): Covers a larger geographical area than a LAN, typically a city or campus.
* PAN (Personal Area Network): Connects devices within the range of an individual person, such as connecting a phone to a Bluetooth headset.
* WAN (Wide Area Network): Spans large geographical areas, connecting multiple LANs across cities, countries, or continents.
References:
* Network Types Overview: Cisco Networking Basics
* Understanding Different Network Types: Network Types Guide

NEW QUESTION # 38
Move each protocol from the list on the left to the correct TCP/IP model layer on the right.
Note: You will receive partial credit for each correct match.



Answer:

Explanation:



Explanation:
Here's how each protocol aligns with the correct TCP/IP model layer:
* TCP (Transmission Control Protocol): This protocol belongs to theTransportlayer, which is responsible for providing communication between applications on different hosts1.
* IP (Internet Protocol): IP is part of theInternetworklayer, which is tasked with routing packets across network boundaries to their destination1.
* FTP (File Transfer Protocol): FTP operates at theApplicationlayer, which supports application and end-user processes.It is used for transferring files over the network1.
* Ethernet: While not a protocol within the TCP/IP stack, Ethernet is associated with theNetwork Interfacelayer, which corresponds to the link layer of the TCP/IP model and is responsible for the physical transmission of data1.
The TCP/IP model layers are designed to work collaboratively to transmit data from one layer to another, with each layer having specific protocols that perform functions necessary for the data transmission process1.
* TCP:
* TCP Model Layer: Transport
* Explanation: The Transport layer is responsible for end-to-end communication and error handling. TCP (Transmission Control Protocol) operates at this layer to provide reliable, ordered, and error-checked delivery of data.
* IP:
* TCP Model Layer: Internetwork
* Explanation: The Internetwork layer, also known as the Internet layer, is responsible for logical addressing and routing. IP (Internet Protocol) operates at this layer to route packets across networks.
* FTP:
* TCP Model Layer: Application
* Explanation: The Application layer provides network services to applications. FTP (File Transfer Protocol) operates at this layer to transfer files between computers over a network.
* Ethernet:
* TCP Model Layer: Network
* Explanation: The Network layer, also known as the Link layer in the TCP/IP model, is responsible for physical addressing and access to the physical medium. Ethernet operates at this layer to provide the physical and data link functions.
* Transport Layer: This layer is responsible for providing communication services directly to the application processes running on different hosts. TCP is a core protocol in this layer.
* Internetwork Layer: This layer is responsible for logical addressing, routing, and packet forwarding.
IP is the primary protocol for this layer.
* Application Layer: This layer interfaces directly with application processes and provides common network services. FTP is an example of a protocol operating in this layer.
* Network Layer: In the TCP/IP model, this layer includes both the data link and physical layers of the OSI model. Ethernet is a protocol used in this layer to define network standards and communication protocols at the data link and physical levels.
References:
* TCP/IP Model Overview: Cisco TCP/IP Model
* Understanding the TCP/IP Model: TCP/IP Layers

NEW QUESTION # 39
An engineer configured a new VLAN named VLAN2 for the Data Center team. When the teamtries to ping addresses outside VLAN2 from a computer in VLAN2, they are unable to reach them.
What should the engineer configure?

- A. Default route
- B. Static route
- C. Default gateway

- D. Additional VLAN

Answer: C

Explanation:
When devices within a VLAN are unable to reach addresses outside their VLAN, it typically indicates that they do not have a configured path to external networks. The engineer should configure a default gateway for VLAN2. The default gateway is the IP address of the router's interface that is connected to the VLAN, which will route traffic from the VLAN to other networks12.
References :=
*Understanding and Configuring VLAN Routing and Bridging on a Router Using the IRB Feature
*VLAN 2 not able to ping gateway - Cisco Community
*VLANs: Virtual Local Area Networks (VLANs) logically segment network traffic to improve security and performance. Devices within the same VLAN can communicate directly.
*Default Gateway: For devices in VLAN2 to communicate with devices outside their VLAN, they need a default gateway configured. The default gateway is typically a router or Layer 3 switch that routes traffic between different VLANs and subnets.
*Additional VLAN: Not needed in this scenario as the issue is related to routing traffic outside VLAN2, not creating another VLAN.
*Default Route: While a default route on the router may be necessary, the primary issue for devices within VLAN2 is to have a configured default gateway.
*Static Route: This is used on routers to manually specify routes to specific networks but does not address the need for a default gateway on the client devices.
References:
*Cisco VLAN Configuration Guide: Cisco VLAN Configuration
*Understanding and Configuring VLANs: VLANs Guide

NEW QUESTION # 40
A support technician examines the front panel of a Cisco switch and sees 4 Ethernet cables connected in the first four ports. Ports 1, 2, and 3 have a green LED. Port 4 has a blinking green light.
What is the state of the Port 4?

- A. Link is up and active.
- B. Link is up and there is no activity.
- C. Link is up and not stable.
- D. Link is up with cable malfunctions.

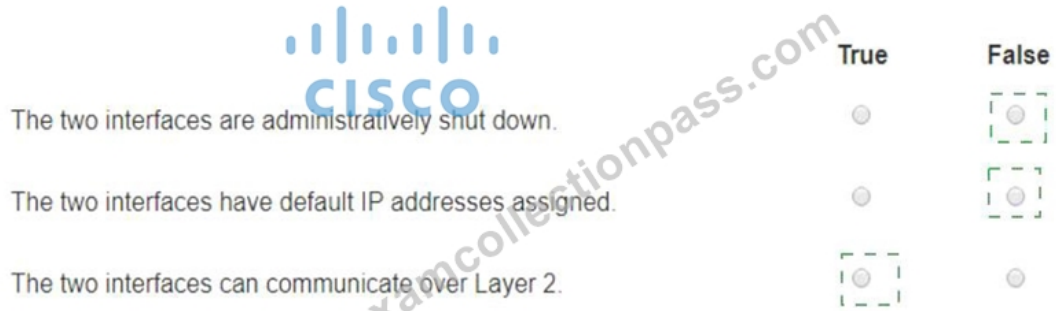
Answer: A

NEW QUESTION # 41
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:



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 # 42
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