



Vendor: Cisco

Exam Code: 100-150

Exam Name: Cisco Certified Support Technician (CCST)
Networking

Version: DEMO

QUESTION 1

At which OSI layer is the data stream broken up into segments that include source and destination port numbers?

- A. Transport
- B. Data Link
- C. Session
- D. Network

Answer: A

Explanation:

The Transport layer breaks data into segments and adds source and destination port numbers so the receiving device can deliver the data to the correct application or service.

QUESTION 2

What is the CIDR prefix notation for a subnet mask of 255.255.0.0?

- A. /8
- B. /16
- C. /24
- D. /32

Answer: B

Explanation:

The subnet mask 255.255.0.0 has 16 consecutive 1 bits in the network portion, so its CIDR prefix length is /16.

QUESTION 3

How is the following IP address written when using CIDR notation?

Address: 192.168.0.16

Subnet Mask: 255.255.255.240

- A. 192.168.0.16 /30
- B. 192.168.0.16 /15
- C. 192.168.0.16 /24
- D. 192.168.0.16 /28

Answer: D

Explanation:

The subnet mask 255.255.255.240 contains 28 network bits, so the address is written in CIDR notation as 192.168.0.16/28.

QUESTION 4

Which device is an Internet of Things (IoT) device?

- A. An internet-accessible thermostat
- B. A cloud-based file storage array
- C. A virtual private network concentrator
- D. A video streaming server

Answer: A

Explanation:

An Internet of Things device is a physical endpoint with embedded connectivity that can collect, send, or receive data over a network. An internet-accessible thermostat matches that definition because it is a connected smart device used in the physical environment.

QUESTION 5

Which network technology is not impacted by electromagnetic and radio wave interference?

- A. Copper
- B. Fiber
- C. Wireless
- D. Twisted pair

Answer: B

Explanation:

Fiber transmits data as light rather than electrical signals, so it is not affected by electromagnetic or radio frequency interference.

QUESTION 6

Which type of connector should you use to terminate unshielded twisted pair cable?

- A. RJ-45
- B. ST
- C. SC
- D. BNC

Answer: A

Explanation:

Unshielded twisted pair Ethernet cable is terminated with an RJ-45 connector, which is the standard connector used for network copper cabling.

QUESTION 7

Which command will display the following output?

```
Image is command output that states the following.

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge, S - Switch, H - Host, I - IGMP,

Device ID      Local Intrfce  Holdtme  Capability Platform Port ID
esxi           Gig 0/5       177      S          VMware ES vmnic0
esxi           Gig 0/7       177      S          VMware ES vmnic1
esxi           Gig 0/6       177      S          VMware ES vmnic2
981888fc23a7   Gig 0/47      160      R S        Meraki MR Port 0
3456fecdd08    Gig 0/1       178      S          MS120-8LP Port 9"
```

- A. show inventory
- B. show cdp neighbor
- C. show mac-address-table

D. show ip interface

Answer: B

Explanation:

The output columns (Device ID, Local Intrfce, Holdtime, Capability, Platform, Port ID) match the information provided by the show cdp neighbor command.

QUESTION 8

A Cisco switch is not accessible from the network. You need to view its running configuration.

Which out-of-band method can you use to access it?

- A. Telnet
- B. Console
- C. SNMP
- D. SSH

Answer: B

Explanation:

The console port provides out-of-band access to view the running configuration even when network connectivity is unavailable.

QUESTION 9

Hotspot Question

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

```
#show running-config | section include interface
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
<output omitted>
```

For each statement about the output, select **True** or **False**.

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

Answer Area

	True	False
The two interfaces are administratively shut down.	☐	☐
The two interfaces have default IP addresses assigned.	☐	☐
The two interfaces can communicate over Layer 2.	☐	☐

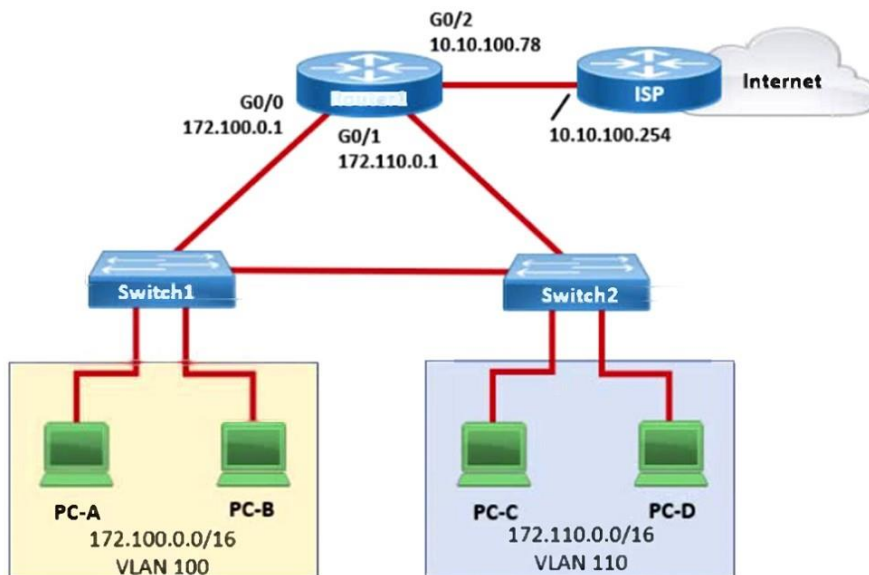
Answer:

Answer Area

	True	False
The two interfaces are administratively shut down.	☐	☒
The two interfaces have default IP addresses assigned.	☐	☒
The two interfaces can communicate over Layer 2.	☒	☐

QUESTION 10

Examine the graphic.



Which address should be assigned as the default gateway to the hosts in VLAN 100 and VLAN 110 so that they can reach the internet?

- A. Hosts in both VLANs should be assigned 10.10.100.1 as the default gateway.
- B. Hosts in both VLANs should be assigned 172.0.0.1 as the default gateway.
- C. Hosts in VLAN 100 should be assigned 172.100.0.1 and hosts in VLAN 110 should be assigned 172.110.0.1 as the default gateway.
- D. Hosts in both VLANs should be assigned 10.10.100.78 as the default gateway.

Answer: C

Explanation:

The default gateway for a host must be the router interface in the same local subnet and VLAN as that host. Hosts in VLAN 100 use the router interface 172.100.0.1, and hosts in VLAN 110 use the router interface 172.110.0.1 so their traffic can be forwarded toward the internet.

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