200-401^{Q&As}

Managing Industrial Networks with Cisco Networking Technologies
(IMINS)

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QUESTION 1

For which three issues should fiber-optic network segments be tested? (Choose three.)

A. attenuation

B. near-end crosstalk

C. length

D. polarity

E. jitter

F. tensile stress

Correct Answer: ACD

QUESTION 2

What do deflections indicate to the time domain reflectometer user?

A. They indicate splices, water in the cable, split pairs, and discontinuities or faults.

B. Do not connect live circuit cables to the input of the time domain reflectometer. Connect the cable that is being tested to the cable connector on the front panel of the time domain reflectometer.

C. Upward deflections indicate high-impedance mismatches or opens, and downward deflections indicate shorts or low-impedance mismatches.

D. They are used to select the I/O impedance of the time domain reflectometer. You can select 50, 75, 95, or 125? impedances.

Correct Answer: C

QUESTION 3

What are two benefits that are provided by proper grounding and bonding systems? (Choose two.)

A. higher speed communications

B. safe discharge of electrostatic energy

C. lower equipment power consumption

D. equipotential termination points for equipment and cable shields

E. lowest carbon footprint

Correct Answer: BD

QUESTION 4

Which protocol is a secure alternative to Telnet?

A. SSH

B. FTP

C. SMTP

D. SNMP

E. HTTP

Correct Answer: A

QUESTION 5

What is a characteristic of cables that are used in articulating equipment arms?

A. fiber-optic zip-cord construction

B. shielded copper twisted pair

C. high flex rated cable

D. type PLTC cable

Correct Answer: C

QUESTION 6

Which two reasons make mesh bonding systems most effective? (Choose two.)

A. cover wide areas

B. provide additional strength to floor structures

C. provide low-impedance noise-equalizing paths

D. create equipotential grounding systems

E. most cost-effective approach

Correct Answer: CD

QUESTION 7

Exhibit:

```
Switch# show spanning-tree vlan 30
VLAN0030
Spanning tree enabled protocol rstp
Root ID Priority 24606
Address 00d0.047b.2800
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 24606 (priority 24576 sys-id-ext 30)
Address 00d0.047b.2800
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300
Interface    Role  Sts   Cost   Prio.Nbr      Type
---------    ----  ---   ----   -------      ------ ----------
Fa1/1        Desg  FWD   4      128.1        p2p
Fa1/2        Desg  FWD   4      128.2        p2p
Fa5/1        Desg  FWD   4      128.257      p2p
```

4 / 9

Refer to the exhibit. The output that is shown is generated at an industrial switch. Which three statements are true? (Choose three.)

A. All ports will be in a state of discarding, learning, or forwarding.

B. Thirty VLANs have been configured on this switch.

C. The bridge priority is lower than the default value for spanning tree.

D. All interfaces that are shown are on shared media.

E. All designated ports are in a forwarding state.

F. This switch must be the root bridge for all VLANs on this switch.

Correct Answer: ACE

QUESTION 8

Exhibit: Refer to the exhibit. What are three traffic and interconnection requirements for the devices in the exhibit? (Choose three.)
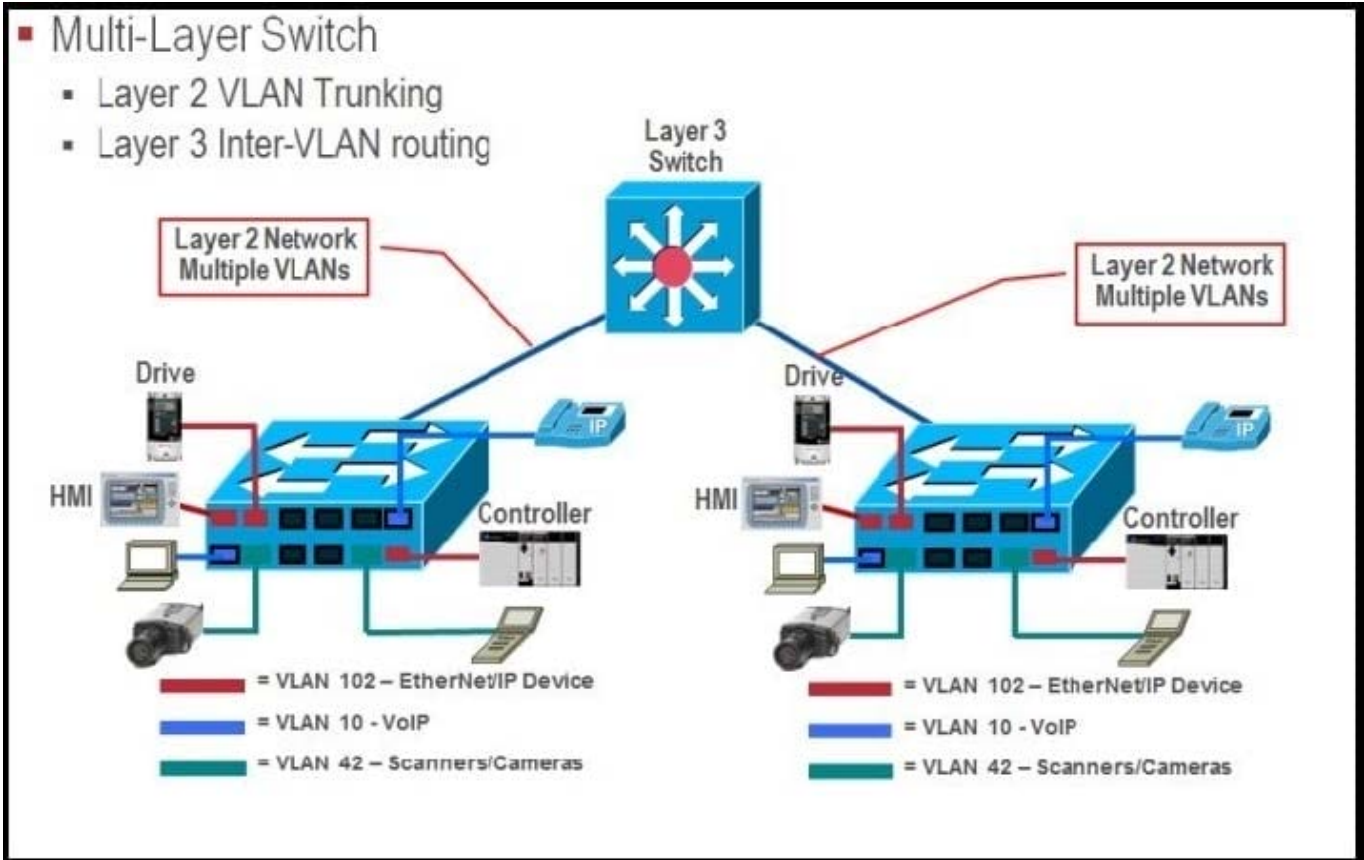
A. The EtherNet/IP drive connections are in a high-voltage area and need protection from electromagnetic noise, so shielded cable that is rated for 600 V is advised.

B. EtherNet/IP devices such as the controller, drive, VoIP phone, and IP camera should be in the same VLAN.

C. CIP traffic has the highest bandwidth requirement so it needs the highest QoS setting.

D. EtherNet/IP drive traffic has high sensitivity to random drops, latency, and jitter.

E. Real-time motion control and VoIP traffic can share the same VLAN with the proper QoS setting.

F. IEEE1588 and PTP are important for ensuring real-time synchronization.

Correct Answer: ADF

QUESTION 9

DRAG DROP

Select and Place:

Drag the steps on the left and arrange them in the order they should be completed when commissioning an industrial Ethernet switch on the right.

Wire the switch to the DC power supply	Step 1
Wire the DC power supply	Step 2
Mount the switch on the DIN rail	Step 3
Connect Patch cords	Step 4
Wire the switch ground to common ground	Step 5
Perform Switch configuration	Step 6

Select and Place:

Drag the steps on the left and arrange them in the order they should be completed when commissioning an industrial Ethernet switch on the right.

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Perform Switch configuration	Step 6

Correct Answer:

Drag the steps on the left and arrange them in the order they should be completed when commissioning an industrial Ethernet switch on the right.

	Mount the switch on the DIN rail
	Wire the switch ground to common ground
	Wire the DC power supply
	Wire the switch to the DC power supply
	Perform Switch configuration
	Connect Patch cords

QUESTION 10

What are two symptoms of duplex mismatch? (Choose two.)

A. Ping does not return from one direction versus the other direction.

B. Communication is slow and locks up.

C. Speed is seen equally slow in both directions.

D. The half-duplex side sees frame sequence errors or runt frames.

E. The full-duplex side sees CRC errors.

Correct Answer: BD

QUESTION 11

Exhibit: Refer to the exhibit. A technician enters the exhibited commands to configure a new router on the plant floor, but receives an error message when attempting to save the configuration. What can the technician do to correct the problem?

```
Router# configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)# hostname Gateway
Gateway(config)# enable secret class
Gateway(config)# interface FastEthernet 0/0
Gateway(config-if)# ip address 192.168.1.254 255.255.255.0
Gateway(config-if)# no shutdown
Gateway(config-if)# exit
Gateway(config)# interface serial 0/0
Gateway(config-if)# ip address 201.86.5.1 255.255.255.252
Gateway(config-if)# no shutdown
Gateway(config-if)# line vty 0 4
Gateway(config-line)# password cisco
Gateway(config-line)# login
Gateway(config-line)# ^Z
Gateway# copy startup-config running-config
%% Non-volatile configuration memory invalid or not present
Gateway#
```

A. Enter the correct command.

B. Enter the command at the correct prompt.

C. Upgrade the amount of flash memory in the router.

D. Erase NVRAM to make room for the configuration file.

E. Add NVRAM because there is not enough room for the configuration file.

Correct Answer: A

QUESTION 12

What are two benefits of a star network topology? (Choose two.)

A. Disruption of the entire network is not required when adding new machines.

B. Any problem which leaves the network inoperable can be traced to the central hub.

C. This network type requires less cable as compared to linear bus topology.

D. The performance of one of the numerous nodes cannot reflect on the performance of other nodes.

E. The performance of the entire network is directly dependent on the performance of the hub.

Correct Answer: AB

QUESTION 13

At which Layer would you check for spanning tree loops?

A. Layer 1

B. Layer 2

C. Layer 3

D. Layer 4

Correct Answer: B

QUESTION 14

Which three pieces of information must be maintained for all stakeholders as part of the change management process? (Choose three.)

A. the location of the person who applied the change

B. the date and time that the change was applied and on which device

C. the original change request form that indicates why the change is necessary

D. the size of the change (in bytes)

E. a description of the actual change itself (configuration, program code, and so on)

F. the names of the current members of the change advisory board

G. the industrial protocol that is used

Correct Answer: BCE

QUESTION 15

A small manufacturing company has a Class C network address on the plant floor and needs to create five subnets, each accommodating 25 endpoints. Which subnet mask needs to be configured?

A. 255.255.240.0

B. 255.255.255.128

C. 255.255.255.192

D. 255.255.255.224

E. 255.255.255.240

F. 255.255.255.248

Correct Answer: D

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