200-601^{Q&As}

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Managing Industrial Networks for Manufacturing with Cisco Technologies

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QUESTION 1

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

QUESTION 2

After commissioning several Stratix 5700 switches in a ring topology, you want to verify the installation against the network logical design. Specifically, you want to verify where the IGMP querier resides. What command can be issued in CLI to display the IP of the querier per VLAN?

A. switch# show ip igmp snooping querier

B. switch# show igmp snooping querier

C. switch# show igmp querier
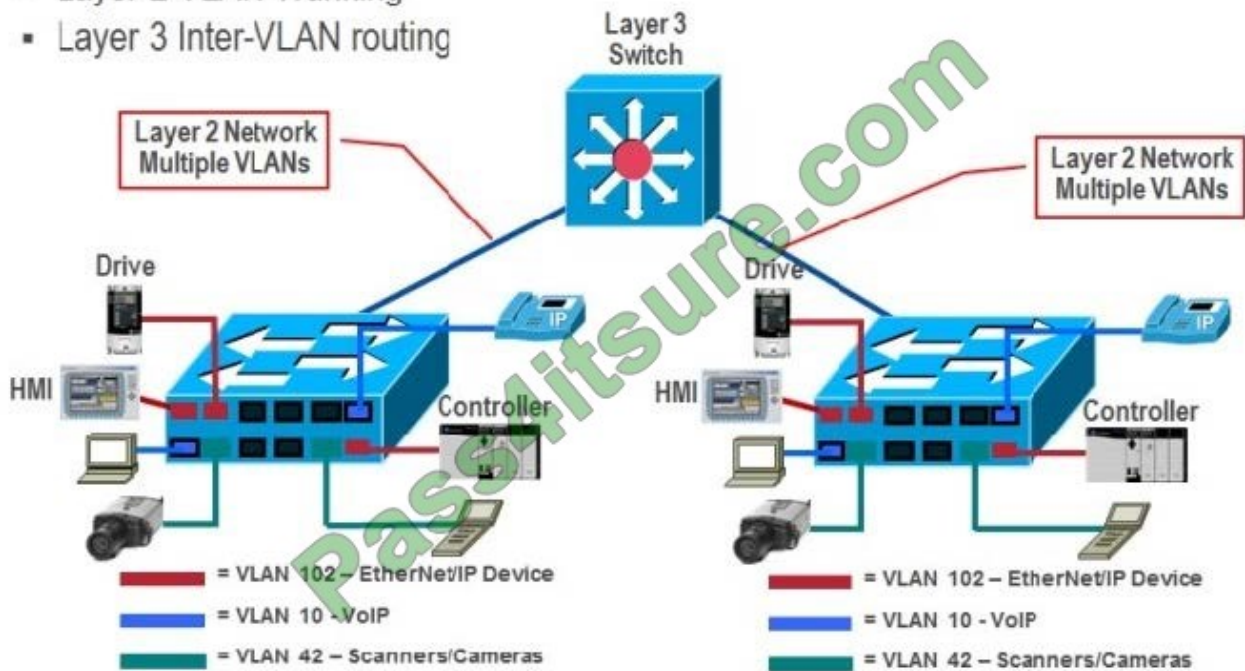
D. switch# show ip igmp querier

Correct Answer: A

QUESTION 3

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 4

Refer to the exhibit. The Robot Cell is in a bottling plant. This cell environment needs to consider high flex, EMI, and possible exposure to moisture. Which physical media components need to be considered to prevent network degradation or interruptions?

Location	From	To	Distance (meters)	Environmental Factors	Connector/s	Stranded/Solid	Jacket	Shielded
Robot Cell	I/O Block	Robot	20	M3I1C2,E3 (High Flex, EMI)				

A. Stranded, shielded wire with an industrial jacket and M12 connectors

B. Solid, unshielded commercial jacket wire, and M12 connectors

C. Stranded, unshielded wire with an industrial jacket, and commercial grade RJ45 connectors

D. Solid, shielded wire with commercial grade jacket, and commercial grade RJ45 connectors

Correct Answer: A

QUESTION 5

Which statement is correct regarding ProfiNET communication classes?

A. ProfiNET-RT traffic is carried in UDP and TCP packets

B. ProfiNET-NRT is used to carry time critical status information

C. ProfiNET-IRT requires switches with hardware time scheduling capabilities

D. ProfiNET-NRT is prioritized as Layer-2 Class-of-Service 1 (CoS 1)

Correct Answer: C

QUESTION 6

A ProfiNET management system operator is unable to see diagnostic information for a Cisco Industrial Ethernet switch that has been added to a SIMATIC management station. Based on the provided CLI output, which statement is correct?

switch# show profinet status

State : Enabled Vlan : 201 Id : IE2000-Switch Connected : Yes ReductRatio : 128 GSD version : Mis-match

A. The assigned ProfiNET VLAN is not valid and should be less than 100

B. LLDP has been disabled on this switch

C. The GSD file version on the switch does not match the GSD file version on the management station

D. The Reduction Ration has been set too low

Correct Answer: C

QUESTION 7

Which best describes the difference between 802.11n and 802.11ac?

A. 802.11ac offers more channels over more bands than 802.11n

B. 802.11ac MCS 1 is about twice as fast as 802.11n MCS1

C. 802.11ac offers more modulation schemes than 802.11n

D. 802.11ac 1SS MCS 9 is allowed over a 20, 40, 80 and 160 MHz channel, while 802.11n 1SS MCS 9 is only allowed over a 20 or 40 MHz channel.

Correct Answer: C

QUESTION 8

Your controller has a high performance EtherNet/IP interface with port speed of >30,000 packets per second and 80% spare capacity. A new PowerFlex 753 drive will be added to the system with an RPI of 2ms and has been connected to a switch; you have been asked to set up the switch port. You open the EDS file and see that the drive will support 16 CIP connections and has transmit and receive capacity of 1,000 control packets per second. What do you set as the storm control pps threshold limit for the port?

A. 16

B. 1,000

C. 2,500

D. 25,000

Correct Answer: C

QUESTION 9

Which describes a best practice rule for controlling traffic between the corporate network and the controls network?

A. Outbound traffic from the control network to the corporate network and outbound traffic from the corporate network to the control network can be restricted based on source and destination address only.

B. Outbound traffic from the corporate network to the control network should be restricted but outbound traffic from the control network to the corporate network should not be restricted.

C. Outbound traffic from the control network to the corporate network should be restricted based on source and destination address and service only.

D. Outbound traffic from the control network to the corporate network should be restricted based on source and destination address, service, and port.

Correct Answer: D

QUESTION 10

Refer to the exhibit.
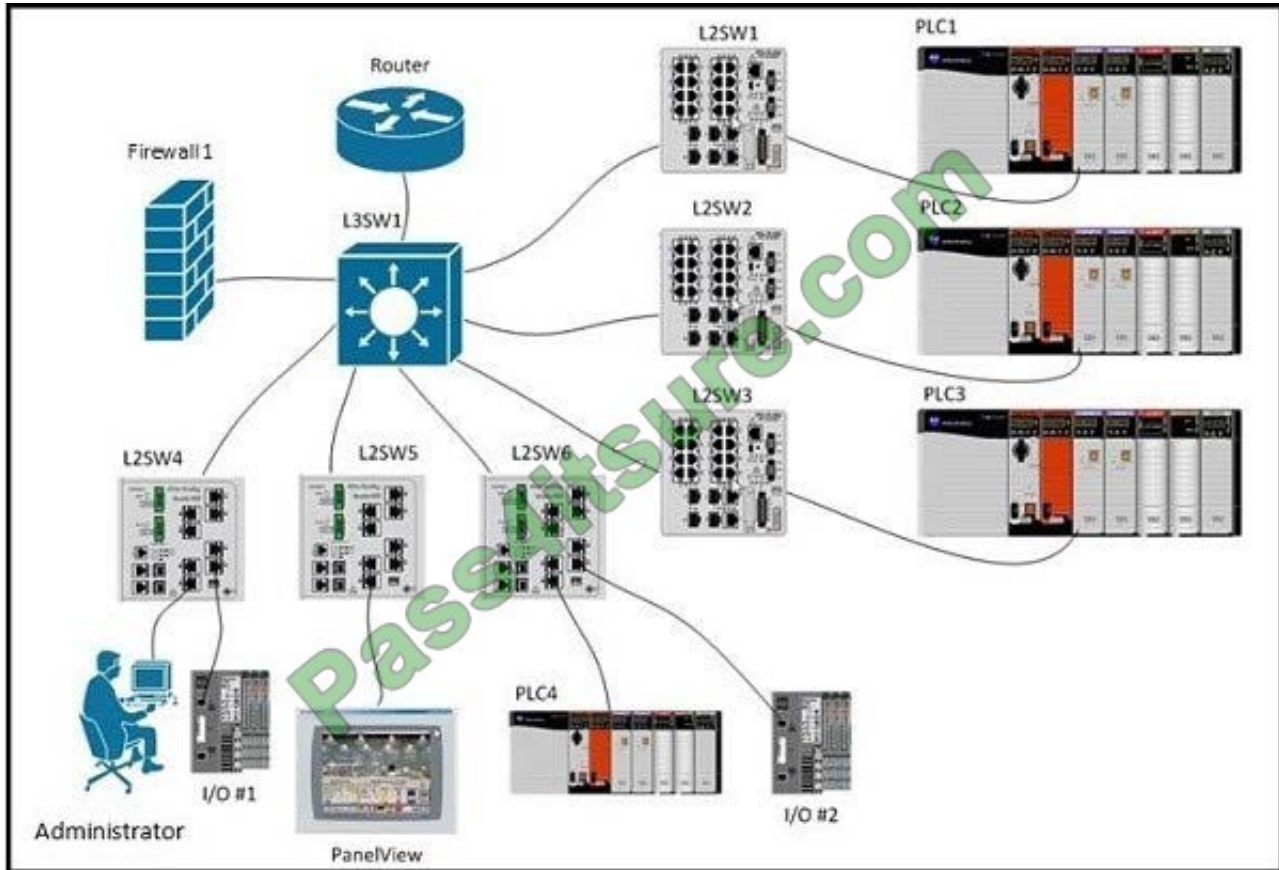
All of the vlans listed in the routing table below are trunked using 802.1q and are active on all switches. PLC1, PLC2, and PLC3 each has IP address 192.168.0.1/24 and are connected to ports configured for vlan 50. L2SW1, L2SW2, and L2SW3 are not using vlan trunking for vlan 50. L3SW1 has following routing table: 10.0.0.0/8 is variably subnetted, 12 subnets, 2 masks C 10.3.138.0/23 is directly connected, Vlan307 C 10.3.136.0/23 is directly connected, Vlan306 C 10.15.153.0/24 is directly connected, Vlan398 C 10.3.142.0/23 is directly connected, Vlan309 C 10.3.140.0/23 is directly connected, Vlan308 C 10.3.186.0/23 is directly connected, Vlan293 C 10.15.154.0/24 is directly connected, Vlan399 C 10.3.184.0/23 is directly connected, Vlan292 C 10.3.190.0/23 is directly connected, Vlan295 C 10.3.188.0/23 is directly connected, Vlan294 C 10.3.182.0/23 is directly connected, Vlan291 C 10.3.180.0/23 is directly connected, Vlan290 PLC1, PLC2, and PLC3 cannot be reconfigured. What can be done to be able to simultaneously communicate with PLC1, PLC2, and PLC3?

A. Enable NAT on L3SW1

B. Enable NAT on L2SW1 ?L2SW3

C. Enable NAT on L2SW4

D. Add vlan 50 to L2SW4 and assign the administrator\\'s an IP address on 192.168.0.0/24 network

Correct Answer: B

QUESTION 11

Which prompt is used to configure parameters for the Ethernet ports of an industrial switch?

A. Switch(config-if)#

B. Switch(config-if-ind)#

C. Switch(config-line)#

D. Switch(config-ind)# E. Switch(config-vlan)#

Correct Answer: A

QUESTION 12

Cisco Industrial Ethernet switches are capable of sending alarm messages to ProfiNET management stations using the ProfiNET-IO protocol. Which four are alarms that can be configured for an interface? (Choose four)

A. Port Not Forwarding

B. Port Not Operating

C. Port LLDP Disabled

D. Port QoS Disabled

E. Port Duplex Mismatch

F. Port FCS Errors Exceeded Threshold

G. Port CRC Errors Exceeded Threshold

H. Port Link Fault

Correct Answer: ABFH

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