Cisco

Exam 600-601

Managing Industrial Networks with Cisco Networking Technologies

Version: 6.0

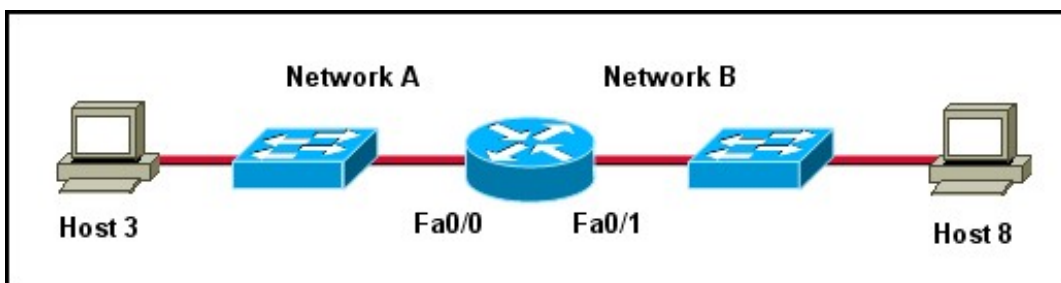**[Total Questions: 64]**

Question No : 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

Answer: D

Question No : 2

Refer to the exhibit.

Host 3 on Network A is sending data to Host 8 on Network B. Which address is the default gateway of Host 3?

A. the address of the switch interface that is connected to router interface Fa0/0
B. the address of the switch interface that is connected to router interface Fa0/1
C. the address of the host that is connected to Network A
D. the address of the host that is connected to Network B
E. the address of the router interface Fa0/0
F. the address of the router interface Fa0/1

Answer: E

Question No : 3

Which of the following correctly pairs the dotted decimal subnet mask with the correct number of binary bits that represent the subnet mask?

A. 255.255.255.192 and /25
B. 255.255.255.248 and /28
C. 255.255.255.224 and /26
D. 255.255.255.248 and /27
E. 255.255.255.240 and /28
F. 255.255.255.240 and /16

Answer: E

Question No : 4

Refer to the exhibit.

```
interface FastEthernet1/1              !
 switchport access vlan 102            interface Vlan101
 !                                      ip address 192.168.1.1 255.255.255.0
interface FastEthernet1/2              cip enable
 switchport access vlan 104            !
 !                                     interface Vlan102
interface FastEthernet1/3              ip address 192.168.2.1 255.255.255.0
 switchport access vlan 103            cip enable
 !                                      !
interface FastEthernet1/4              interface Vlan103
 switchport access vlan 101             ip address 192.168.3.1 255.255.255.128
 !                                      cip enable
interface FastEthernet1/5              !
 switchport trunk native vlan 103      interface Vlan104
 switchport mode trunk                  ip address 192.168.3.129 255.255.255.128
 !                                      cip enable
interface Vlan1                        !
 no ip address                         ip classless
```

Which port should a PLC with IP address 192.168.3.65 be plugged into in order to communicate to the rest of the network?

A. FastEthernet1/1
B. FastEthernet1/2
C. FastEthernet1/3
D. FastEthernet1/4
E. FastEthernet1/5

**Answer: C**

Question No : 5

Which option allows an EtherNet/IP I/O device to be safely installed where it is subject to water immersion?

A. The device is rated IP20 and the power wiring is installed securely to the terminal block.
B. The device is rated IP67 and a power cordset is used.
C. The device is rated IP67 and immersed to 10 m.
D. The device is rated IP20 and immersed to 10 m.

Answer: B

Question No : 6

Refer to the exhibit.
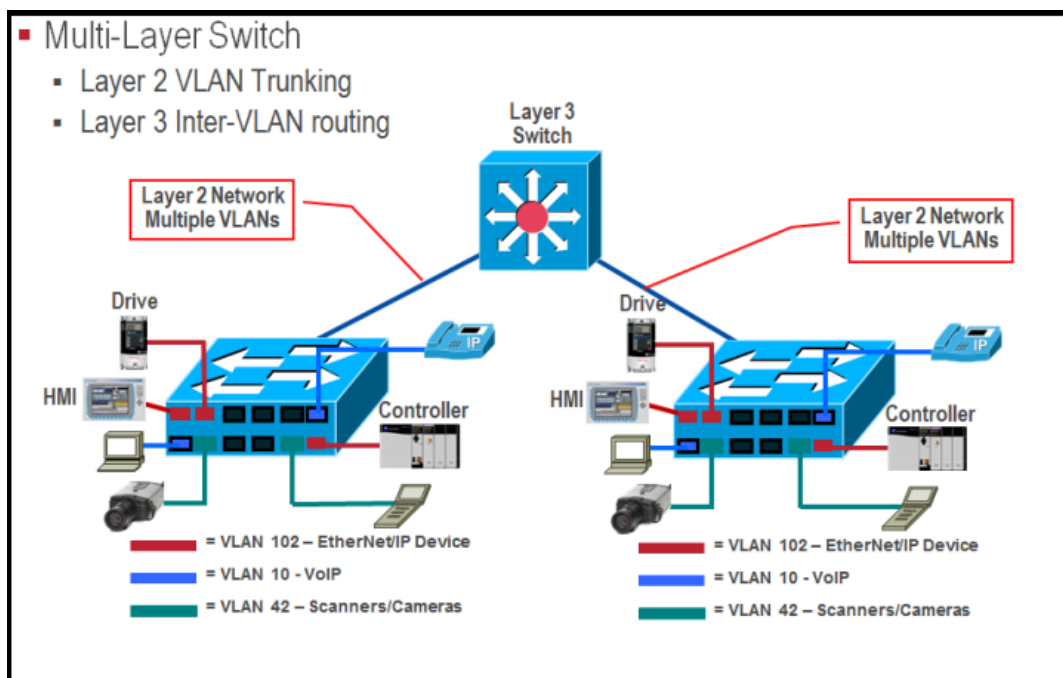
What are three traffic and interconnection requirements for the devices in the exhibit? (Choose three.)

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.