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QUESTION 21 Which two protocols are used by bridges and/or switches to prevent loops in a layer 2 network? (Choose two.) A. 802.1d B. VTP C. 802.1q D. STP E. SAP Answer: AD Explanation: This question is to examine the STP protocol. STP (802.1d) is used to prevent Layer 2 loops. 802.1q is a Frame Relay protocol which belongs to VLAN. SAP is a concept of the OSI model.

QUESTION 22 Which switch would STP choose to become the root bridge in the selection process? A. 32768: 11-22-33-44-55-66 B. 32768: 22-33-44-55-66-77 C. 32769: 11-22-33-44-55-65 D. 32769: 22-33-44-55-66-78 Answer: A QUESTION 23 A switch is configured with all ports assigned to vlan 2 with full duplex FastEthernet to segment existing departmental traffic. What is the effect of adding switch ports to a new VLAN on the switch? A. More collision domains will be created. B. IP address utilization will be more efficient. C. More bandwidth will be required than was needed previously. D. An additional broadcast domain will be created. Answer: D Explanation: Each VLAN creates its own broadcast domain. Since this is a full duplex switch, each port is a separate collision domain.

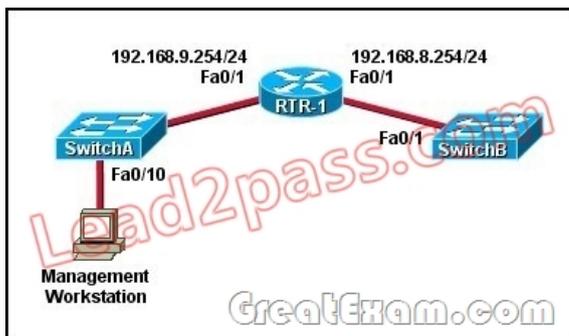
QUESTION 24 What are three benefits of implementing VLANs? (Choose three.) A. A higher level of network security can be reached by separating sensitive data traffic from other network traffic. B. A more efficient use of bandwidth can be achieved allowing many physical groups to use the same network infrastructure. C. A more efficient use of bandwidth can be achieved allowing many logical networks to use the same network infrastructure. D. Broadcast storms can be mitigated by increasing the number of broadcast domains, thus reducing their size. E. Broadcast storms can be mitigated by decreasing the number of broadcast domains, thus increasing their size. F. VLANs make it easier for IT staff to configure new logical groups, because the VLANs all belong to the same broadcast domain. G. Port-based VLANs increase switch-port use efficiency, thanks to 802.1Q trunks. Answer: AC Explanation: Benefits of VLANs VLAN is a network structure which allows users to communicate while in different locations by sharing one multicast domain and a single broadcast. They provide numerous networking benefits and have become popular in the market. For instance, it helps reduce administrative costs when users are geographically dispersed.

1. Inexpensive The popularity of VLANs is due to the fact that changes, adds, and moves can be attained simply by making necessary configurations on the VLAN port. Time-consuming, re-addressing, and host reconfigurations is now a thing of the past, because network configuration can be made at ease when need arises.
2. Better management A VLAN typically solve the scalability issues that exist in a large network by breaking the main domain into several VLAN groups or smaller broadcast configurations, thereby encourage better control of multicast traffic as well as broadcast domains.
3. Improves network security High-security can be positioned in different VLAN groups to ensure that non-members cannot receive their broadcasts. On the other hand, a router is added and workgroups relocated into centralized locations.
4. Enhances performance A more efficient use of bandwidth can be achieved allowing many logical networks to use the same network infrastructure.
5. Segment multiple networks VLANs are typically used to achieve multiple purposes. They are popularly used to reduce broadcast traffic. Each VLAN creates a separate, smaller broadcast domain.
6. Better administration VLANs facilitate grouping of multiple geographical stations. When VLAN users move to another physical location, the network does not have to be configured.

QUESTION 25 Which IEEE standard protocol is initiated as a result of successful DTP completion in a switch over Fast Ethernet? A. 802.3ad B. 802.1w C. 802.1DD. 802.1Q Answer: D Explanation: Dynamic Trunking Protocol (DTP) is a Cisco proprietary protocol for negotiating trunking on a link between two devices and for negotiating the type of trunking encapsulation (802.1Q) to be used.

QUESTION 26 Which of the following are benefits of VLANs? (Choose three.) A. They increase the size of collision domains. B. They allow logical grouping of users by function. C. They can enhance network security. D. They increase the size of broadcast domains while decreasing the number of collision domains. E. They increase the number of broadcast domains while decreasing the size of the broadcast domains. F. They simplify switch administration. Answer: BCE Explanation: When using VLAN the number and size of collision domains remain the same -> VLANs allow to group users by function, not by location or geography -> . VLANs help minimize the incorrect configuration of VLANs so it enhances the security of the network -> . VLAN increases the size of broadcast domains but does not decrease the number of collision domains -> VLANs increase the number of broadcast domains while decreasing the size of the broadcast domains which increase the utilization of the links. It is also a big advantage of VLAN -> . VLANs are useful but they are more complex and need more administration ->

QUESTION 27 Refer to the exhibit. A technician has installed SwitchB and needs to configure it for remote access from the management workstation connected to SwitchA . Which set of commands is required to accomplish this task?



A. SwitchB(config)# interface FastEthernet 0/1SwitchB(config-if)# ip address 192.168.8.252 255.255.255.0 SwitchB(config-if)# no shutdownB. SwitchB(config)# interface vlan 1SwitchB(config-if)# ip address 192.168.8.252 255.255.255.0 SwitchB(config-if)# ip default-gateway 192.168.8.254 255.255.255.0 SwitchB(config-if)# no shutdownC. SwitchB(config)# ip default-gateway 192.168.8.254SwitchB(config)# interface vlan 1SwitchB(config-if)# ip address 192.168.8.252 255.255.255.0 SwitchB(config-if)# no shutdownD. SwitchB(config)# ip default-network 192.168.8.254SwitchB(config)# interface vlan 1SwitchB(config-if)# ip address 192.168.8.252 255.255.255.0 SwitchB(config-if)# no shutdownE. SwitchB(config)# ip route 192.168.8.254 255.255.255.0SwitchB(config)# interface FastEthernet 0/1SwitchB(config-if)# ip address 192.168.8.252 255.255.255.0 SwitchB(config-if)# no shutdown

Answer: CEExplanation:To remote access to SwitchB, it must have a management IP address on a VLAN on that switch. Traditionally, we often use VLAN 1 as the management VLAN (but in fact it is not secure).

In the exhibit, we can recognize that the Management Workstation is in a different subnet from the SwitchB. For intersubnetwork communication to occur, you must configure at least one default gateway. This default gateway is used to forward traffic originating from the switch only, not to forward traffic sent by devices connected to the switch.

QUESTION 28In an Ethernet network, under what two scenarios can devices transmit? (Choose two.) A. when they receive a special tokenB. when there is a carrierC. when they detect no other devices are sendingD. when the medium is idleE. when the server grants access

Answer: CEExplanation: Ethernet network is a shared environment so all devices have the right to access to the medium. If more than one device transmits simultaneously, the signals collide and can not reach the destination.If a device detects another device is sending, it will wait for a specified amount of time before attempting to transmit.When there is no traffic detected, a device will transmit its message. While this transmission is occurring, the device continues to listen for traffic or collisions on the LAN. After the message is sent, the device returns to its default listening mode.

QUESTION 29Which two states are the port states when RSTP has converged? (Choose two.) A. discardingB. listeningC. learningD. forwardingE. disabled

Answer: ADEExplanation: http://www.cisco.com/en/US/tech/tk389/tk621/technologies_white_paper09186a0080094cfa.shtml #states

QUESTION 30Which two commands can be used to verify a trunk link configuration status on a given Cisco switch interface? (Choose two.) A. show interface trunkB. show interface interfaceC. show ip interface briefD. show interface vlanE. show interface switchport

Answer: AE If you want to pass the Cisco CCNA 200-120 exam successfully, recommend to read latest Cisco [200-120 dumps](#) full version.

