Exam Code: 642-054

Exam Name: Routing and Switching Solutions for

Systems Engineers(RSSSE)

Vendor: CISCO

Version: DEMO

Part: A

1: Your customer is relocating its data center to a new building. The new data center is two miles from the existing data center. The customer's scheduled maintenance window is too short to accommodate a flash cut, so it plans on relocating 25 percent of the servers on separate weekends. The customer does not wish to change the IP addresses of the servers and is trying to find a way to bridge its subnets between the two data centers during the migration period. Which Cisco product may be able to accomplish this?

A.SFS 3000

B.Aironet 1120

C.Aironet 1400

D.Cisco IP Transfer Point

Correct Answers: C

2: Given a Cisco Catalyst 4500 Series Switch with redundant supervisors, what feature allows phone calls to remain up in the event of a supervisor failure?

A.HSRP

B.SSO

C.CEF

D.NSF

E.NetFlow

Correct Answers: B

3: In a Cisco Catalyst 6500-E Series chassis, why is a special type of fan used?

A.Nonredundant power mode generates less heat, and consequently a slower fan speed can be used.

B.It provides additional cooling, which is required by new line cards that generate more heat due to increased power consumption.

C.A dual-speed fan is required to support the redundant and nonredundant power-mode features of the Catalyst 6500-E Series.

D.A larger fan is required to provide increased airflow because the Catalyst 6500-E Series has a smaller form factor; there isn't more heat, there is less room.

Correct Answers: B

4: What are three important characteristics of the Cisco Catalyst 2960G-24TC switch? (Choose three.)

A.Each Ethernet 10/100/1000 port supports up to six priority queues each with two drop thresholds.

B.does not support 802.3af PoE

C.uses the GBIC/SFP form factor for dual-purpose ports

D.provides a maximum forwarding bandwidth of 32 Gbps

E.contains 24 Ethernet 10/100/1000 ports and 2 dual-purpose slot

Correct Answers: B C D

5: Refer to the exhibit. Which would be a benefit of designing the OSPF network as shown?
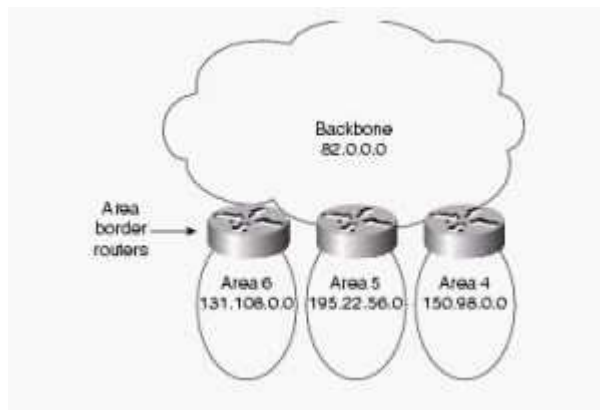
A.Routes can be redistributed within the individual areas.

B.The backbone area does not need any internal routers.

C.Route summarization is enabled by default in this type of configuration.

D.Route summarization configuration at the ABRs is greatly simplified.

Correct Answers: D

6: Refer to the exhibit. Your customer has the network shown and is seeing greater demand for videoconferencing. You recommend an IP multicast solution. What are two benefits of the customer implementing IP multicasting? (Choose two.)
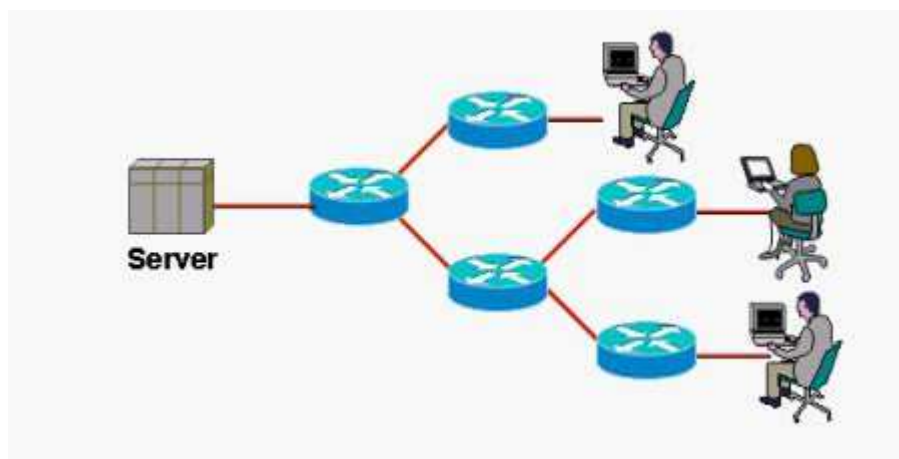
A.eliminates traffic redundancy

B.enables multipoint applications

C.guarantees delivery of all packets because it uses TCP/IP

D.eliminates the need for QoS and reduces network utilization

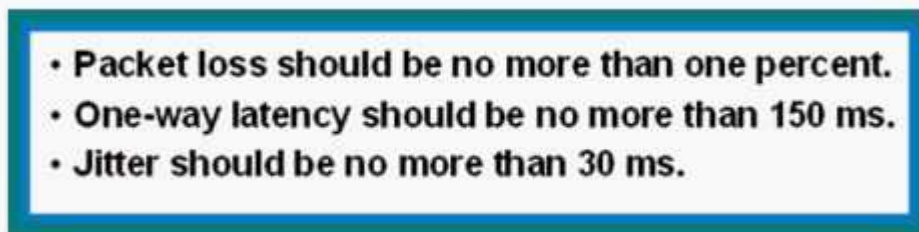E.reduces network routing updates because it is concerned about the packet destination

Correct Answers: A B

7: Your retail customer has 330 branch locations that it wishes to connect via Frame Relay. At the headquarters location there will be two DS-3 Frame Relay circuits, each connected to an ISR 3845 router. Each branch location will have a fractional T1 with a 128-kbps CIR and a PVC mapped to each of the DS-3 circuits. Which two considerations must be addressed for this design? (Choose two.)

A.The MTU for the Frame Relay circuits should be set to 4470 to allow the LMI message to include all 330 DLCIs.

B.Additional routers and circuits should be installed at headquarters so that no more than 200 branch locations are mapped to each ISR due to IDB limitations.

C.The customer should not run OSPF. Since all branches are connected to the same circuit at headquarters they must be in the same OSPF area, and the number of branches exceeds the design recommendations for routers in an OSPF area.

D.Frame Relay traffic shaping should be implemented to prevent congestion in the Frame Relay switch.

E.The CIRs should be reduced so the DS-3 circuits are not oversubscribed.

Correct Answers: A D

8: Refer to the exhibit. Which type of traffic must be sensitive to the parameters shown?

• Packet loss should be no more than one percent.
• One-way latency should be no more than 150 ms.
• Jitter should be no more than 30 ms.

A.voice
B.interactive video
C.streaming video
D.voice-enabled data

Correct Answers: B

9: You are required to upgrade the network of a multistory branch office building to support Cisco 7970 IP Phones throughout. Given that each phone uses 15.4 W, how many phones can a Cisco Catalyst 3750 support using Cisco Intelligent Power Management in a 48-port PoE configuration?
A.8
B.16
C.24
D.32
E.48

Correct Answers: C

10: Your client is adding a new R&D facility to its existing, three-building corporate campus. The new building will be four stories high and house from 150 to 400 employees. The client would like to deploy IP communications to this building and connect it to the existing campus TDM phone system. The new building will use collaborative workspaces for each team, and it will require that each team member have the flexibility to move among work areas yet remain connected to the network and receive phone calls. Which four technologies will be applicable here? (Choose four.)

A.wireless

B.switching

C.security

D.storage

E.PoE

F.AONS

Correct Answers: A B C E

11: Drag Drop question

Drag the characteristics on the left to the design solution they best describe on the right.

most flexible, scalable campus backbone, uses Layer 3 switches and backbone switches connected by routed Gigabit Ethernet links	collapsed backbone
large campus, 3 or more buildings, adds backbone switches to reduce the number of connections, links to the backbone should be routed interfaces	full mesh backbone
small campus, most traffic goes into one centralized server farm module, traffic between client modules requires three logical hops through backbone	Layer 2 switched backbone
2 or more Layer 3 switches, useful for small to medium campus networks, scalability limited, ARP entries for every networked device in the campus	Layer 3 switched backbone

Correct Answers:

Drag the characteristics on the left to the design solution they best describe on the right.

12: Refer to the exhibit. What WAN topology is being used?

A.star

B.full mesh

C.multipoint

D.point to point

E.partial mesh

F.hub and spoke

Correct Answers: E

13: A client wants to install a secured repeater access point to extend its network to an area that has no wired network access. After properly configuring the repeater access point for Cisco LEAP, what two configurations must the customer implement in order for the secured repeater access point to connect and send data? (Choose two.)

A.Configure the repeater access point for Network EAP authentication.

B.Configure the repeater access point as "bridge mode" so it requests the dynamic key from the root access point.

C.Configure the repeater access point to transmit and receive on a nonoverlapping channel from the root access point.

D.Configure the username and password to be used by the repeater when authenticating to the root access point.

E.Configure the root access point as "bridge mode," so it transmits the dynamic key when a repeater access point requests it.

Correct Answers: A D

14: What are three reasons to design Layer 3 routing into the core of a campus LAN environment?

A.to implement security

B.to design scalable networks

C.to implement address structure

D.to improve backbone performance

E.to remove spanning tree from the core

Correct Answers: B C E

15: Refer to the exhibit. The network is running the EIGRP routing protocol. Distribution router 1 loses the link to the corporate network. How should the remote spoke router be configured to prevent it from being the next-lowest-cost path to network 10.3.1.0?

A.Disable split horizon.

B.Configure it as an EIGRP stub router.

C.Enable route filtering.

D.Configure a floating static route to network 10.3.1.0.

Correct Answers: B