

**Exam : 3COM 3M0-212**

**Title : 3Com Certified Enterprise  
LAN Pre-Sales Expert  
version 3.2**

**Version : Demo**

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1. Which two are Layer 3 features of the Switch 5500-EI and 5500G-EI? (Choose two.)

- A. Dynamic IPX routing
- B. Border Gateway Protocol
- C. Multicast routing PIM Sparse and Dense Mode
- D. Static routes for routed environments where no routing protocol is used

**Answer:** CD

2. Which two features are supported on the Switch 8800? (Choose two.)

- A. ATM over fiber links
- B. IEEE 802.3ae 10 gigabit Ethernet
- C. IEEE 802.3af Power over Ethernet (PoE)
- D. Store and forward and cut-through switching

**Answer:** BC

3. If you chose the Switch 5500G-EI 24 port model (3CR17250-91) for the Maluti University (MU) distribution centers, which solution would you use to connect the distribution center to the wiring closets on the upper floors?

### Maluti University (MU) Scenario

This scenario supports questions 3.7.1 - 3.7.10

The university is a vibrant academic community of some 21,000 students and 4,500 staff members. A major project is underway to: upgrade the Maluti campus network to deliver a secure, managed, fully switched infrastructure. To provide an acceptable level of service to the 5,700 users, a multiple gigabit or 10 gigabit backbone infrastructure is needed. All shared media devices will be replaced with switches. Finally, a new LAN telephony system will replace the aging PABX system, which has its own infrastructure and 4,500 extensions.

The main data center in Building 9 houses 28 servers and is the campus LAN center. Buildings 9, 16, 20, 35 and 38 form the network core, with each building supporting up to 10 satellite buildings. The majority of the buildings have four floors, with the user population spread fairly evenly across the floors. Each floor has its own central wiring closet, and all wiring to the desktops is currently based on Cat5/Cat5E UTP. Redundancy in the network is very important – the backbone must be designed with alternate paths and routes. Other key requirements include: a secure network environment, provision of growth for users and servers, and central monitoring and management.

Recently, 400 network points were installed in one of the student residences. The design included 3Com SuperStack 3 Switch 4400 switches for network-user connectivity, linked to switches in the building basement. The residence has a direct connection to the data center in Building 9. There will be a requirement to extend the network to all residences, adding 3,500 network points to the campus network.

A special gigabit-Ethernet requirement exists for Buildings 45 and 46: Building 45 has 17 high-performance workstations and four local servers, and Building 46 has 14 high-performance workstations and six local servers. All need gigabit Ethernet LAN connections.

The network must support the following requirements

- The data center in Building 9 connects to each of the four distribution buildings (Buildings 16, 20, 35 and 38) via four single-mode fiber cables, forming the network core. Each distribution building (including Building 9) supports between four and 10 additional satellite buildings via redundant, multimode 50/125 fiber.
- The backbone must be highly redundant, multi-gigabit Ethernet/10 gigabit, non-blocking, wire-speed and support Link Aggregation and TCP/IP Layer 3 routing. Note: other protocols will be handled with Layer 2 switching within VLANs.
- The 28 servers in the data center must have 10/100/1000BASE-T links, high availability with dual-homing desirable.
- Multi-story buildings have multimode 50/125 fiber link between floors.
- End users require Layer 2 switching, 10/100BASE-T autosensing, auto MDIX links.
- Traffic prioritization (IEEE 802.1p and/or DiffServ); VLANs and VLAN tagging (IEEE 802.1Q); and QoS prioritization of applications and IP telephony are required.
- The highest level of security using IEEE 802.1X network Login is needed.
- The new network initially will have 5,700 user ports. An additional 3,500 residence ports and 4,500 LAN telephony phones will be added over time.
- All new equipment must support IEEE 802.3 Ethernet standards.

- A. Use the 10/100/1000BASE-T switch ports to connect the switch to the wiring closets
- B. Use 1000BASE-SX SFP Transceivers on the SFP gigabit ports to connect the switch to the wiring closets
- C. Use the 1-port 10G Application Media Module with 10GBASE-LR XFP Transceiver to connect the switch to the wiring closets
- D. Use 3Com's eXpandable Resilient Networking (XRN) Distributed Fabric technology to connect the switch to the wiring closets

**Answer: B**

4. How should you prioritize traffic on a network, if both voice and video are present on the network?

- A. Video and voice traffic should have equal priority
- B. Video traffic should have higher priority than voice traffic
- C. Voice traffic should have higher priority than video traffic

**Answer: C**

5. If you chose the Switch 5500 family for the Maluti University (MU) distribution centers, which solution would you use to connect the distribution centers to the campus data center in Building 9?

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- The new network initially will have 5,700 user ports. An additional 3,500 residence ports and 4,500 LAN telephony phones will be added over time.
- All new equipment must support IEEE 802.3 Ethernet standards.

- A. Use the Switch 5500-EI PWR 28-port model (3CR17171-91) and connect the data center to the SFP slots
- B. Use the Switch 5500-EI 28 port FX model (3CR17181-91) and connect the data center to the 100BASE-X SFP transceivers
- C. Use the Switch 5500-EI 28 port model (3CR17161-91) and connect the data center to the SFP slots with 1000BASE-SX SFP transceivers
- D. Use the Switch 5500G-EI 24 port model (3CR17250-91) and connect the data center to the 2-port 10G Application Media Module with 10GBASE-LR XFP Transceivers

**Answer: D**

6. Your Maluti University (MU) data center design uses a single Switch 8814 to support the campus backbone, the server farm and the wiring-closet connections in Building 9. Which two current Switch 8800 features address Maluti University (MU) network requirements? (Choose two.)

Maluti University (MU) Scenario

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- A. With no single point of failure, the switch creates a reliable, high-availability solution
- B. ATM support over OC3 provides greater data throughput on the campus backbone
- C. Cut through switching consistently provides lower latency for voice traffic on the LAN
- D. Multiple priority features ensure key applications will receive the best network response (e.g., eight priority queues per port, Weighted Random Early Detection (WRED) queuing and DiffServ support)

**Answer: AD**

7. Which two features are supported by all Switch 5500 models? (Choose two.)

- A. Dynamic and static routing
- B. Power over Ethernet (PoE)
- C. IEEE 802.1X Network Login
- D. Hot-swappable Application Module Slot

**Answer: AC**

8. Which three features are only supported on the Switch 5500G-EI switch models? (Choose three.)

- A. Port-based VLANs

- B. 24 or 48 10/100/1000 Mbps ports
- C. PoE upgradeable power supply unit
- D. Hot-swappable Application Module Slot
- E. Four GBIC Small Form-factor Plug-in (SFP) ports

**Answer:** BCD

9. Using 3Com's XRN technology, you can mix Switch 5500-SI and Switch 5500-EI model switches to create a single switch stack.

- A. True
- B. False

**Answer:** B

10. Which two software features are supported by all Switch 5500 models? (Choose two.)

- A. OSPF
- B. PIM Sparse Mode
- C. QoS prioritization and classification
- D. RADIUS Authenticated Device Access (RADA)

**Answer:** CD

11. Which two hardware features are supported on the Switch 5500-EI and Switch 5500-SI switch models? (Choose two.)

- A. 24 or 48 10/100 Mbps ports
- B. 24 or 48 10/100/1000 Mbps ports
- C. 2 Gbps, full-duplex XRN stacking link
- D. Mix and match either switch in a single stack

**Answer:** AC

12. Which two features are supported by all Switch 5500 models? (Choose two.)

- A. IEEE 802.1X Network Login
- B. Eight egress queues per port
- C. 24 or 48 10/100/1000 Mbps ports
- D. Hot-swappable Application Module Slot

**Answer:** AB

13. The Switch 5500G-EI supports a field-upgradeable, Power over Ethernet (PoE) power supply unit.

- A. True
- B. False

**Answer:** A

14. Which Switch 5500 model(s) supports a 96 Gbps full-duplex XRN stacking connection?

- A. Switch 5500-SI

- B. Switch 5500-EI
- C. Switch 5500G-EI
- D. All of the above

**Answer: C**

15. Which two are benefits of the Switch 5500 XRN Distributed Device Management (DDM) support? (Choose two.)

- A. Supports up to 12 switches in a single stack
- B. Creates a 12 Gbps full-duplex link between switches
- C. All switches within a stack act as a single logical device
- D. Resilient XRN architecture provides management access if any switch fails in a stack

**Answer: CD**

16. Only the Switch 5500G-EI supports all three XRN features: XRN Distributed Device Management (DDM), Distributed Link Aggregation (DLA) and Distributed Resilient Routing (DRR).

- A. True
- B. False

**Answer: B**

17. Using XRN stacking, what is the maximum number of 10/100 ports supported in a stack of Switch 5500G-EIs?

- A. 128
- B. 256
- C. 384
- D. 512

**Answer: C**

18. Which two are Layer 2 features of the Switch 5500 family? (Choose two.)

- A. Rapid Spanning Tree Protocol (RSTP)
- B. User definable MAC table aging period
- C. Super-VLANs
- D. GARP Multicast Registration Protocol (GMRP)

**Answer: AB**

19. The Switch 5500 allows VLANs to be automatically assigned based on user credentials or on the MAC address of the device.

- A. True
- B. False

**Answer: A**

20. Which two are features only supported on the Switch 5500-EI and Switch 5500G-EI models? (Choose

two.)

- A. Up to 4,094 port-based VLANs
- B. 802.1X Authentication Support
- C. IEEE 802.3af Power over Ethernet (PoE)
- D. Protected ports communicate with other protected ports for inter-VLAN communications

**Answer:** AC

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