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Vendor: HP

Exam Code: HP0-S32

Exam Name: HP BladeSystem Networking 2011

Version: Demo

QUESTION 1

How can a tagged packet be processed for QoS when it is received on an inbound interface? (Select three.)

- A. The marked priority level can be changed to enforce predetermined classification levels.
- B. The packet can be scheduled for a queue based on the marked 802.1p priority level.
- C. The packet can be moved to a more secure VLAN and its priority remarked.
- D. The packet can be scheduled for a queue based on a preset policy.
- E. The packet can be discarded or rerouted if it does not match a set policy.
- F. The packet can be prevented switch traversal for a predetermined penalty period.

Correct Answer: ABD

QUESTION 2

What are Virtual Connect Enterprise Manager features? (Select three.)

- A. is licensed per enclosure
- B. is licensed with the Virtual Connect Ethernet module
- C. is embedded on the Virtual Connect Ethernet module
- D. can administer up to 256,000 network addresses
- E. can manage a single domain of up to four enclosures
- F. can administer up to 16,000 servers

Correct Answer: ADF

QUESTION 3

Which is a unique feature of a virtual switch?

- A. port mirroring for packet analysis
- B. VLAN segmentation at the port level
- C. no packet forwarding (routing) between VLANs
- D. maximum of 1016 ports per switch

Correct Answer: D

QUESTION 4

What is considered a Virtual Connect domain in Virtual Connect Enterprise Manager?

- A. a maximum of 1,000 enclosures
- B. a maximum of 16,000 servers
- C. from 1 to 4 enclosures
- D. 250 Virtual Connect Manager domains

Correct Answer: C

QUESTION 5

Which industry-standard protocols are supported on Virtual Connect Ethernet uplinks? (Select three.)

- A. IEEE 802.1 AX (802.3ad) Link Layer Discovery Protocol (LLDP)
- B. IEEE 802.1w-2001 Rapid Spanning Tree (RSTP)
- C. IEEE 802.1p Quality of Service (QoS)
- D. IEEE 802.1 AX (802.3ad) Link Aggregation Protocol
- E. IEEE 802.1Q VLAN tagging
- F. IEEE 802.3af-2003 Power over Ethernet (PoE)

Correct Answer: ADE

QUESTION 6

Which tasks are used to define a vNet for Virtual Connect Ethernet? (Select three.)

- A. Assign only one network per server NIC.
- B. Assign one or multiple networks per server NIC.
- C. Optionally set the native VLAN.
- D. Define the server profile.
- E. Specify VLAN names/IDs.
- F. Select unassigned uplinks.

Correct Answer: ADF

QUESTION 7

Which spanning tree protocol is the most appropriate in a VLAN-aware, non-proprietary network implementation?

- A. RSTP
- B. PVST+
- C. MSTP
- D. STP

Correct Answer: C

QUESTION 8

The IEEE 802.1AX (802.3ad) Link Aggregation Control Protocol is a Layer 2 protocol. What is its function?

- A. dynamically identifies link speeds regardless of media type

- B. forms port trunks consisting of two or more uplink ports
- C. identifies the VLAN to which frames transmitted on a link or port trunk belong
- D. advertises information that describes and identifies devices

Correct Answer: B

QUESTION 9

What is used to achieve Fibre Channel data transfer?

- A. channel mesh
- B. packets
- C. tunnels
- D. frames

Correct Answer: D

QUESTION 10

What does N_Port ID virtualization do?

- A. provides an abstraction layer between the server HBAs and the SAN
- B. provides interoperability among third-party SAN device manufacturers
- C. provides connectivity between the Virtual Connect module and the Onboard Administrator
- D. enables a single HBA port to register multiple, unique WWNs within a fabric

Correct Answer: D

QUESTION 11

What is considered a trunk in a Cisco switching environment?

- A. aggregated switch links
- B. tagged VLAN port (802.1Q)
- C. tagged VLAN port plus link aggregation
- D. Shared Uplink Set plus Connection Mode Auto

Correct Answer: B

QUESTION 12

In a switching environment with redundant links, which technology is required for proper operation?

- A. VLANs
- B. Cisco vPC
- C. loop prevention
- D. dynamic routing

Correct Answer: C

QUESTION 13

What are valid FlexNIC bandwidth selections? (Select three.)

- A. Preferred
- B. Assigned
- C. Static
- D. Custom
- E. Dynamic
- F. Auto

Correct Answer: ADF

QUESTION 14

You are configuring Virtual Connect Flex-10 10Gb Ethernet modules with Flex-10 server adapters. What is an important network design consideration?

- A. The Virtual Connect Flex-10 10Gb Ethernet module does not enforce VLAN isolation between FlexNICs of the same server LAN on Motherboard (LOM).
- B. If the Flex-10 server adapters are implemented as mezzanine cards, the Virtual Connect Flex-10 10Gb Ethernet module requires all FlexNICs be configured for the same speed.
- C. The Virtual Connect Manager will enforce physical port isolation by not allowing FlexNICs of the same server port to connect to the same Virtual Connect network.
- D. LACP trunking is not allowed between Virtual Connect uplink ports and infrastructure switch ports located on different modules, even if within the same physical switch.

Correct Answer: C

QUESTION 15

On a Cisco switch, what does the portfast setting do?

- A. eliminates auto-negotiation delays with 10GbE ports
- B. ensures the link is at maximum speed regardless of configuration
- C. causes BPDUs to be blocked if sensed
- D. eliminates delays inherent in RSTP/MSTP synchronization

Correct Answer: D

QUESTION 16

What does trunk refer to in industry-standard terminology?

- A. aggregated switch links
- B. tagged VLAN port (802.1Q)
- C. tagged VLAN port plus link aggregation
- D. Shared Uplink Set plus Connection Mode Auto

Correct Answer: A

QUESTION 17

Which statements are true about port VLAN memberships? (Select three.)

- A. A port can be an untagged member of multiple VLANs.
- B. A port must be a member of at least one VLAN.
- C. A port must be a tagged member of only one VLAN.
- D. A port can be an untagged member of only one VLAN.
- E. A port can be a tagged member of multiple VLANs.
- F. A port can be a tagged member of one VLAN and an untagged member of multiple VLANs.

Correct Answer: BDE

QUESTION 18

What are the requirements for link aggregation using LACP? (Select three.)

- A. Links must have the same tagged VLANs assigned.
- B. Links must be the same speed.
- C. Links must use the same media type.
- D. Links must share a boundary.
- E. Links must be full-duplex.
- F. Links must be fiber connections.

Correct Answer: BDE

QUESTION 19

What are valid reasons for implementing VLANs? (Select two.)

- A. to segregate traffic by resource or application needs
- B. to provide enhanced name resolution
- C. to reduce subnet cost options
- D. to minimize the effect of broadcast traffic on hosts
- E. to support multipathing

Correct Answer: AD

QUESTION 20

Which port is the lowest-cost path to the spanning tree root bridge?

- A. root port
- B. defined root port
- C. designated port
- D. forwarding port

Correct Answer: A

QUESTION 21

Which action is required at the guest operating system level to enable it to run on a virtual machine?

- A. A key code must be loaded into the registry and validated by VMware.
- B. The VMware driver must be loaded for full network support.
- C. No action is required because VMware is transparent to the operating system.
- D. A VMware license must be loaded on each guest.

Correct Answer: C

QUESTION 22

What can be used by a QoS policy to classify traffic? (Select two.)

- A. packet size
- B. egress port
- C. TCP port number
- D. TCP window size
- E. VLAN ID

Correct Answer: CE

QUESTION 23

Which advantages do ACLs offer? (Select two.)

- A. fewer necessary support staff
- B. increased network security
- C. smaller broadcast domain
- D. reduced network complexity
- E. improved network performance

Correct Answer: BE

QUESTION 24

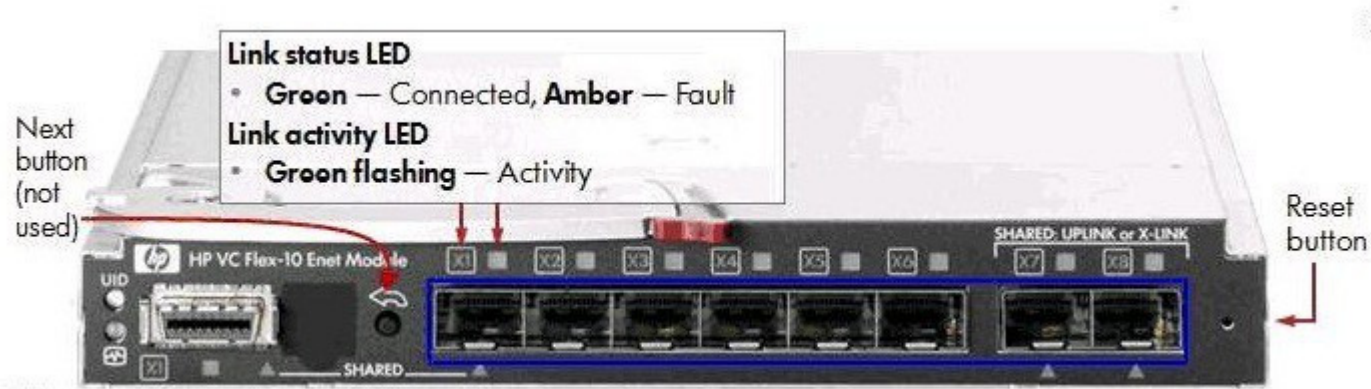
How many World Wide Names (WWNs) does Virtual Connect Manager make available?

- A. 64 total available WWNs
- B. 64 ranges for a total of 128 WWNs
- C. 64 ranges for a total of 1024 WWNs
- D. 128 ranges of 64 WWNs

Correct Answer: C

QUESTION 25

Click the Exhibit button.



Identify the port type shown in the blue outlined area.

- A. fiber
- B. SFP+
- C. RJ-45
- D. dedicated

Correct Answer: B

QUESTION 26

A device with a non-compliant 802.1Q network adapter (NIC) is plugged into which type of switch port?

- A. workstation
- B. untagged
- C. trunk
- D. tagged

Correct Answer: B

QUESTION 27

What best describes the functionality of the Virtual Connect Ethernet module?

- A. Layer 2 switch
- B. Layer 3 switch
- C. pass-thru module
- D. Ethernet port aggregator

Correct Answer: D

QUESTION 28

Click the Exhibit button.

Port	Network Name	Status	Port Speed Setting	Allocated Bandwidth	PXE	MAC	Mapping	Delete
1	Unassigned	OK	Preferred	1 Gb	Use BIOS	00-17-A4-77-34-08	LOM1	X
2	Unassigned	OK	Preferred	1 Gb	Use BIOS	00-17-A4-77-34-0A	LOM2	X
3	Unassigned	OK	Preferred	1 Gb	Use BIOS	00-17-A4-77-34-0C	LOM3	X
4	Unassigned	OK	Preferred	1 Gb	Use BIOS	00-17-A4-77-34-0E	LOM4	X
5	Default-VLAN-A	OK	Preferred	10 Gb	Use BIOS	00-17-A4-77-34-10	MZ2-1-a => Bay 5	X
6	Default-VLAN-B	OK	Preferred	10 Gb	Use BIOS	00-17-A4-77-34-12	MZ2-2-a => Bay 6	X
7	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-34-14	MZ2-1-b => Bay 5	X
8	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-34-16	MZ2-2-b => Bay 6	X
9	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-34-18	MZ2-1-c => Bay 5	X
10	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-34-1A	MZ2-2-c => Bay 6	X
11	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-34-1C	MZ2-1-d => Bay 5	X
12	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-34-1E	MZ2-2-d => Bay 6	X

What does the illustration reveal about the hardware configuration of the HP Integrity BL860c server blade? (Select two.)

- A. The LOM is not a Flex-10 module.
- B. The Flex-10 interface is in mezzanine Slot 2.
- C. Ports 5 and 6 are preferred for connectivity.
- D. Ports 7 through 12 are defective.
- E. VLANs A and B are incorrectly configured.

Correct Answer: AB

QUESTION 29

What is the advantage of using Virtual Connect Flex-10 technology in a VMware environment?

- A. It becomes tightly linked with VMware for better management through vCenter.
- B. It eliminates the limit on NIC connections imposed by default on each VMware server.
- C. It enables full VLAN support in VMware including multiple tagging functionality.
- D. It allows bandwidth to be allocated as necessary to each VMware service or application.

Correct Answer: D

QUESTION 30

What are valid reasons for creating trunk links between switches? (Select three.)

- A. Standby link capabilities are available with dynamic trunks.
- B. A greater number of VLANs can be supported.
- C. Capacity is maximized by increasing the number of links available for data flow.
- D. Guaranteed load balancing prevents unbalanced traffic load across links.
- E. There is improved availability because of the lower risk of link failure.
- F. The overall error count on the switch is decreased.

Correct Answer: ACE

QUESTION 31

Click the Exhibit button.

Port	Network Name	Status	Port Speed Setting	Allocated Bandwidth	PXE	MAC	Mapping	Delete
1	Default-VLAN-A	OK	Preferred	10 Gb	Use BIOS	00-17-A4-77-48-00	LOM1-a => Bay 1	X
2	Default-VLAN-B	OK	Preferred	10 Gb	Use BIOS	00-17-A4-77-48-02	LOM2-a => Bay 2	X
3	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-48-04	LOM1-b => Bay 1	X
4	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-48-06	LOM2-b => Bay 2	X
5	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-48-08	LOM1-c => Bay 1	X
6	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-48-0A	LOM2-c => Bay 2	X
7	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-48-0C	LOM1-d => Bay 1	X
8	Unassigned	OK	Preferred	Not Allocated	Use BIOS	00-17-A4-77-48-0E	LOM2-d => Bay 2	X

What is the status of the Windows Server 2008 NICs under View Network Connections with the server profile configuration shown in the exhibit?

- A. Only the NICs represented by Ports 1 and 2 will be shown.
- B. All the NICs will display as connected.
- C. All the NICs will display as disconnected.
- D. Two NICs will display as connected and six will display as disconnected.

Correct Answer: D

QUESTION 32

What is the default global parameter setting for how Virtual Connect handles VLANs?

- A. Native VLANs Tag mode
- B. Tunnel VLANs Tag mode
- C. Enable VLANs Tag mode
- D. Map VLANs Tag mode

Correct Answer: D

QUESTION 33

What does a priority value of 101110 denote?

- A. VLAN scheduling
- B. Stacked QoS
- C. Layer 2 QoS
- D. Layer 3 QoS

Correct Answer: D

QUESTION 34

When a Flex-10 server adapter is deployed in a Virtual Connect Flex-10 environment, how are the FlexNICs recognized by the operating system?

- A. as individual 10GbE NICs, until the correct driver is loaded by the operating system at boot time
- B. as individual NICs, after the correct license key has been loaded and verified by the Onboard Administrator
- C. as individual 1GbE NICs, until the correct driver is loaded by the operating system at boot time
- D. transparently, because the server ROM recognizes each FlexNIC as an individual NIC with its own driver

Correct Answer: D

QUESTION 35

How many BladeSystem c7000 enclosures are supported in a single Virtual Connect domain?

- A. 1
- B. 4
- C. 8
- D. 16

Correct Answer: B

QUESTION 36

Which management interface provides the administrator with the most control over switch parameters and monitoring functions?

- A. SNMP
- B. Web browser
- C. Menu
- D. CLI

Correct Answer: D

QUESTION 37

You are creating a connection between multiple server blades and an external switch on a single VLAN. All traffic from the servers is tagged. What must you create within Virtual Connect if it is globally set for VLAN Tunnel mode?

- A. simple vNET with Tunnel mode option enabled
- B. Shared Uplink Set
- C. simple vNET with Tunnel mode option disabled
- D. untagged uplink trunk

Correct Answer: A

QUESTION 38

Where are broadcasts flooded in Layer 2 switches?

- A. to only those nodes in the same subnet as the originating node
- B. through all ports except the port the broadcast came in on
- C. through all ports in the same VLAN except the port it came in on
- D. through all ports and all VLANs on the switch

Correct Answer: C

QUESTION 39

Which tasks are only used for defining a Shared Uplink Set for Virtual Connect Ethernet? (Select three.)

- A. Optionally set native VLAN.
- B. Define server profile.
- C. Assign one or multiple networks per server NIC.
- D. Assign only one network per server NIC.
- E. Select unassigned uplinks.
- F. Specify VLAN names/IDs.

Correct Answer: ACF

QUESTION 40

What is required for a Layer 3 switch to route between directly connected VLANs? (Select two.)

- A. IP routing must be globally enabled on the switch.
- B. Dynamic Layer 3 routing protocol must be enabled and configured.
- C. There must be multi-netted IP addresses on all VLAN interfaces on the switch.
- D. An IP address must be configured for each VLAN that will be forwarded.
- E. A DHCP helper address must be defined on each participating VLAN.

Correct Answer: AD

QUESTION 41

In an IP subnet without VLANs, each subnet terminates at the interface. How are IP subnets with VLANs different?

- A. VLAN IP subnets terminate at each port.
- B. VLAN IP interfaces are more easily multi-netted with VLANs.
- C. VLAN IP subnets allow for greater control with ACLs.
- D. VLAN IP subnets are logically separated from the router.

Correct Answer: D

QUESTION 42

What is the function of the active member of a dynamic LACP trunk?

- A. determines the trunk link used for each given Layer 2 node-to-node conversation
- B. requests dynamic port utilization from the receiving node to the sending node to form the LACP trunk
- C. listens for BPDUs and forms a dynamic trunk when a MAC address of the same partner is heard on multiple ports
- D. sends BPDUs and forms a dynamic trunk if a partner hears its MAC address on multiple ports

Correct Answer: D

QUESTION 43

What is a limitation of the VMware vNetwork standard switch?

- A. Tagged VLANs are not supported in a virtual switch.

- B. MAC forwarding tables are not implemented in a virtual switch.
- C. Virtual machines cannot communicate through the virtual switch.
- D. Spanning tree is not supported in a virtual switch.

Correct Answer: D

QUESTION 44

Which Virtual Connect tagging mode is limited to 320 VLANs per Virtual Connect Ethernet module?

- A. Tunnel VLAN Tags
- B. Tagged VLAN
- C. Map VLAN Tags
- D. Transparent VLAN Tags

Correct Answer: C

QUESTION 45

On which criterion do standard ACLs provide security?

- A. range of destination IP addresses
- B. range of source IP addresses
- C. IP precedence
- D. ICMP and IGMP message types

Correct Answer: B

QUESTION 46

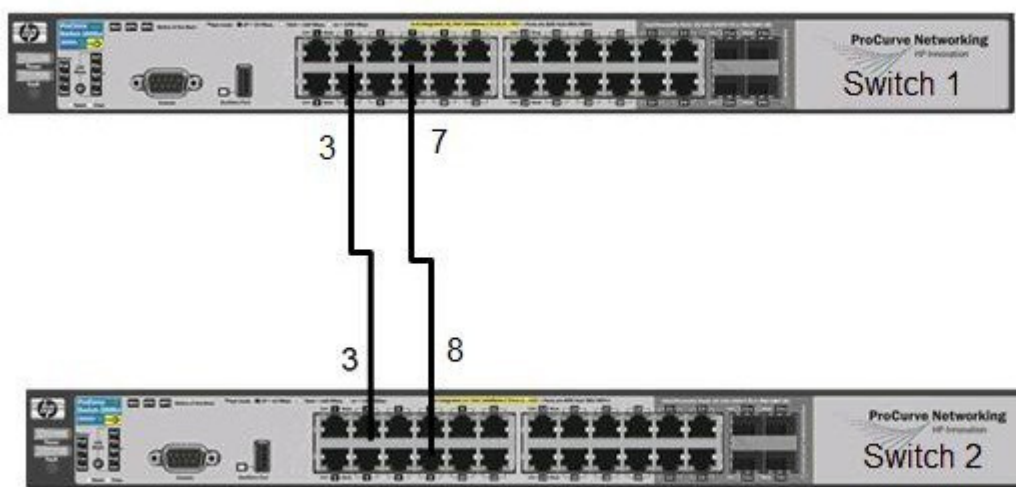
Which parameters are part of a Bridge Protocol Data Unit (BPDU) transmission? (Select two.)

- A. Switch Port ID
- B. Port Duplex ID
- C. Switch MAC address
- D. Port POE parameters
- E. Management IP address

Correct Answer: AC

QUESTION 47

Click the Exhibit button.



VLAN1:
Ports 1,3,5,8-24 (untagged)
VLAN 10:
Ports 2,4,6,7 (tagged)

VLAN1:
Ports 1-24 (untagged)
VLAN 10:
Port 8 (tagged)

You have connected the cables as shown in the exhibit:

What is the result of this configuration?

- A. Switch 1, Ports 1, 3, 5, and 8 can communicate with all ports in Switch 2, except Port 8.
- B. Connections between Switches 1 and 2 will cause a Layer 2 loop.
- C. No VLAN 10 ports can communicate without a router or Layer 3 switch.
- D. In Switch 1, only Ports 2, 7, and 8 can communicate together.

Correct Answer: B

QUESTION 48

Which advantage does Flex-10 technology provide?

- A. increased Layer 2 switch port count
- B. increased CPU performance
- C. decreased number of interconnect modules
- D. increased dynamic management functionality

Correct Answer: C

QUESTION 49

Which status describes a virtual router interface?

- A. It is only considered up if the state of the physical port is up.

- B. It is always up and not directly associated with a physical port.
- C. It is considered up if at least one VLAN's port's members is up.
- D. It is only considered up if the status of the interface protocol is also up.

Correct Answer: C

QUESTION 50

Which topologies are in a typical enterprise network? (Select three.)

- A. access
- B. user
- C. web
- D. distribution
- E. core
- F. server

Correct Answer: ADE

QUESTION 51

What is the purpose of a RADIUS server for switch management?

- A. log file storage and consolidation
- B. storage of configuration files and software images
- C. central user database
- D. SNMP management application server

Correct Answer: C

QUESTION 52

Which OSI model layer uses frames? (Select two.)

- A. Layer 2
- B. Network
- C. Layer 4
- D. Session
- E. Data Link

Correct Answer: AE

QUESTION 53

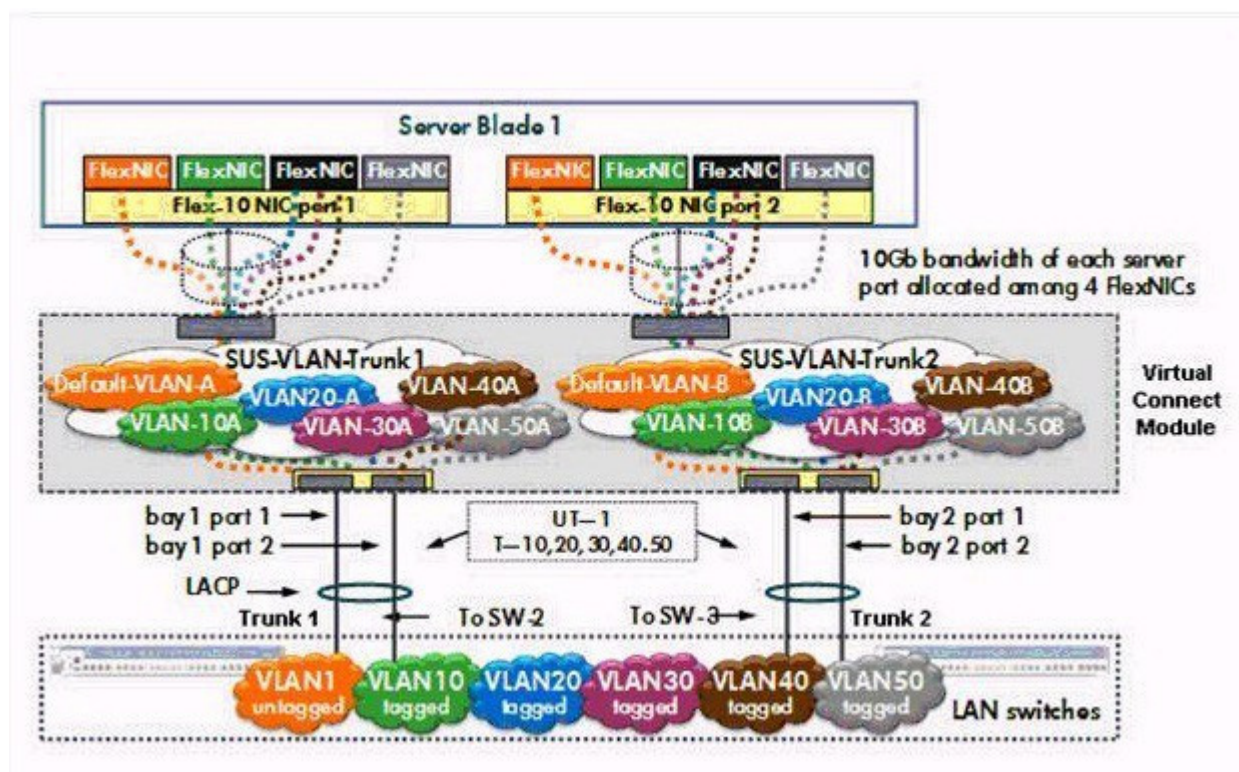
What are advantages of using Layer 3 to connect from the access layer to the core? (Select three.)

- A. flatter network with fewer hops
- B. equal cost balancing on all links with OSPF
- C. extended broadcast domains
- D. loop control using spanning tree
- E. VRRP configuration not required
- F. no link blocking involved

Correct Answer: BEF

QUESTION 54

Click the Exhibit button.



What will be the status of Trunk 1 and Trunk 2 in the exhibit?

- A. One trunk will be in an active state and the other will be in a standby state.
- B. Both trunks will be in an active state.
- C. Both trunks will be in a standby state because the VLANs are duplicated in the switches.
- D. Both trunks will be in a standby state because the VLANs are duplicated in Virtual Connect.

Correct Answer: A

QUESTION 55

How can MSTP be configured to ensure that VLANs are not orphaned?

- A. Ensure that the switches with the lowest MAC addresses are directly connected.
- B. Allow the assignment of VLAN priorities on each individual interface to influence traffic flow.
- C. Define the appropriate MSTP region version number in each switch's configuration file
- D. Allow the VLANs to be divided across multiple instances, each with unique root bridges and paths.

Correct Answer: D

QUESTION 56

At which OSI model layer does a router work?

- A. Session
- B. Transport
- C. Application
- D. Network

Correct Answer: D

QUESTION 57

Which protocols are industry-standard switch protocols? (Select two.)

- A. LLDP
- B. CDP
- C. LLTD
- D. STP
- E. EGRP

Correct Answer: AD

QUESTION 58

What must you define when configuring Virtual Connect Ethernet for a server blade that can support tagged Ethernet frames in VLANs 20, 30, 50, and 60?

- A. a vNet in Map VLAN tags mode
- B. a vNet in Tunnel VLAN tags mode
- C. a Shared Uplink Set in Map VLAN tags mode
- D. a Shared Uplink Set in Tunnel VLAN tags mode

Correct Answer: C

QUESTION 59

How does a simple vNet handle VLAN tags in Map mode?

- A. accepts only untagged frames from the servers or the switch
- B. accepts only tagged frames from the servers and only untagged frames from the switch
- C. accepts tagged or untagged frames from the switch and only untagged frames from the servers
- D. accepts tagged or untagged frames from the servers or the switch

Correct Answer: A

QUESTION 60

Which features differentiate Virtual Connect Ethernet interconnect modules from switches? (Select three.)

- A. All changes affect the network.
- B. They are managed with the servers.
- C. They are part of the server system.
- D. They are part of the infrastructure network.
- E. Any changes are transparent to the network.
- F. They are part of the LAN network.

Correct Answer: BCE

QUESTION 61

Which command do you use to view information about the status and configuration of HP Integrity virtual machines?

- A. hpvmconfig
- B. hpvmstatus
- C. hpvm -status
- D. vmstatus

Correct Answer: B

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