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**Vendor:** HP

**Exam Code:** HP0-J26

**Exam Name:** Designing and Implementing HP SAN  
Solutions

**Version:** Demo

**QUESTION 1**

To install additional switches, you must determine the ideal ISL ratio. Which ISL ratio range is recommended for less I/O intensive application requirements (less than 70 MB/s at 2 Gb/s, less than 140 MB/s at 4 Gb/s, less than 280 MB/s at 8 Gb/s)?

- A. 3:1 to 1:1
- B. 1:1 to 3:1
- C. 15:1 to 7:1
- D. 7:1 to 15:1

**Correct Answer:** D

**QUESTION 2**

Which Fibre Channel timing variables must match in an interoperable fabric?

- A. Timing variables do not need to match.
- B. R\_A\_TOV, E\_D\_TOV and B\_B\_TOV
- C. R\_A\_TOV and E\_D\_TOV
- D. R\_A\_TOV and B\_B\_TOV

**Correct Answer:** C

**QUESTION 3**

You are preparing an installation plan for implementing a new SAN design and want to ensure all customer needs are included. Which data collection method requires that you create a process list and review all relevant stakeholders?

- A. Card Arrangement
- B. Information Extraction
- C. Brainstorming
- D. Process Mapping

**Correct Answer:** B

**QUESTION 4**

Which information should be included in the topology map documentation of a SAN design provided to your support organization? (Select two.)

- A. serial numbers of connected servers
- B. SAN switch zoning configurations
- C. storage controller operating mode parameters
- D. IP addresses of the connected servers
- E. World Wide Names of all nodes and devices

**Correct Answer:** BE

**QUESTION 5**

You are implementing a SAN infrastructure including an HP StorageWorks EVA4400 at Your customer site. The customer is interested in using three-site cascaded replication functionality. What should you recommend to accomplish this? (Select two).

- A. HPStorageWorks FlexCopy
- B. HP Continuous Access EVA
- C. additional disks in the EVA
- D. HP Virtual Replicator
- E. HP Business Copy EVA

**Correct Answer:** BE

**QUESTION 6**

Which HP tool provides the ability to create a Microsoft Visio diagram of a SAN topology for Your customer documentation?

- A. SAN Health
- B. SAN Designer
- C. SAN Visibility
- D. SAN Navigator

**Correct Answer:** C

**QUESTION 7**

A single Fibre Channel router is implemented in an existing SAN. What can be accomplished?

- A. fabric management service
- B. fabric interconnection without merge
- C. SAN availability improvement
- D. SAN extension across long distances

**Correct Answer:** B

**QUESTION 8**

Which features can affect performance in a SAN? (Select three.)

- A. cable modes
- B. number of ISLs
- C. type of LC connector
- D. storage array configuration
- E. type and capacity of disks used
- F. storage access restrictions

**Correct Answer:** BDE

**QUESTION 9**

What has the most influence on the response time of a hard disk drive?

- A. arbitration
- B. host request
- C. rotational delay
- D. seek time

**Correct Answer:** C

**QUESTION 10**

You are preparing for a homogeneous fabric merge and notice the customer set the same domain ID for all fabrics. What will happen if this is not corrected?

- A. Enabled zone configurations are immediately disabled.
- B. Domain IDs remain unchanged and the fabrics become segmented.
- C. Domain IDs are automatically renumbered and the fabrics merge, but port zoning is affected.
- D. Domain IDs are automatically renumbered and the fabrics merge without any side effect.

**Correct Answer:** B

**QUESTION 11**

Which method should you use to quickly and easily document a new customer SAN configuration?

- A. Follow all cabling from port to port, write down source and target of the cables, label the cables, and record the labels.
- B. Collect the customer's configuration data using SANVisibility, upload the data and verify the report as soon as you get the documents.
- C. Install HP SIM and HP Storage Essentials SRM in 60-day trial mode on a new Windows Central Management Server and collect the site information to evaluate the result with Report Designer
- D. Use Finisar Fibre Channel Sniffer to determine source, destination, quality and performance of the Fibre Channel configuration.

**Correct Answer:** B

**QUESTION 12**

Which tasks are performed in the background by a storage system if write-back caching is enabled? (Select two.)

- A. Rotate
- B. Cache data
- C. CPU processing
- D. Acknowledge to Write
- E. Seek

**Correct Answer:** AE

**QUESTION 13**

Which HP offering most effectively provides customers with SAN management knowledge and skills?

- A. free downloadable documentation
- B. web-based and instructor-led training
- C. on-site technical HP support engineers
- D. proactive and reactive support

**Correct Answer:** B

**QUESTION 14**

Which activity should be done last during the fulfillment of an HP Installation and Startup Service?

- A. infrastructure functionality test
- B. customer orientation session
- C. documentation preparation
- D. Call Home Software (ISEE) installation

**Correct Answer:** B

**QUESTION 15**

What are the best SAN topologies for a one-to-one local data locality? (Select two.)

- A. meshed fabric
- B. ring fabric
- C. fat tree backbone fabric
- D. cascaded fabric
- E. skinny tree backbone fabric

**Correct Answer:** BD

**QUESTION 16**

Which SAN component integrates the quality and features of HP SAN hardware devices to simplify the storage network complexity?

- A. high speed cabling
- B. open standard protocols
- C. industry standard host bus adapters
- D. SAN management software

**Correct Answer:** D

**QUESTION 17**

Which HP StorageWorks software utility can be used to analyze Your customer's current SAN environment and produce an accurate topology diagram?

- A. SAN Visibility tool
- B. SAN Designer tool
- C. SAN Analysis tool
- D. SAN Sizing tool

**Correct Answer:** A

**QUESTION 18**

What is the maximum distance between 8 Gb/s switches using nominal bandwidth (OM2) multimode fiber optic cables?

- A. 50 meters
- B. 150 meters
- C. 380 meters
- D. 500 meters

**Correct Answer:** A

**QUESTION 19**

How many ports are supported on an 8/20q Fibre Channel switch with the Simple SAN Connection Kit?

- A. 8 ports to 20 ports, in 4-port increments
- B. 12 ports to 20 ports, in 4-port increments
- C. 16 ports to 20 ports, in 2-port increments
- D. 16 ports to 20 ports, in 4-port increments

**Correct Answer:** A

**QUESTION 20**

Which SAN design element reduces total cost of ownership?

- A. upgrade capability
- B. increased performance
- C. replicated data
- D. centralized backup

**Correct Answer:** D

**QUESTION 21**

Which SAN design element requires the development of a timeline?

- A. Documentation

- B. Solution Design
- C. Deployment
- D. Information Gathering

**Correct Answer: C**

**QUESTION 22**

What should you do to give multiple servers exclusive access to units on a storage subsystem in a SAN?

- A. Zone the fabric.
- B. Set the operating system type on the connections.
- C. Set up LUN masking on each unit to the appropriate host(s).
- D. Set unit offsets on each connection.

**Correct Answer: C**

**QUESTION 23**

Which HP Service tool performs an operating system binary event log analysis?

- A. ISEE
- B. WEBES
- C. RISS
- D. OSEM

**Correct Answer: B**

**QUESTION 24**

Which HP StorageWorks C-Series SAN switch service allows incompatible devices to operate on the same switch with separate instances of fabric services?

- A. virtual fabric
- B. virtual output queuing
- C. virtual storage area network
- D. N\_Port\_ID virtualization

**Correct Answer: C**

**QUESTION 25**

Your customer is concerned about business continuity. Which SAN design elements should you highlight to demonstrate that the concern has been addressed? (Select two.)

- A. NSPOF
- B. fast backups
- C. storage virtualization
- D. centralized management
- E. failover software

**Correct Answer: AE**

**QUESTION 26**

Which documents are helpful when you associate a WWN with a physical port of a SAN device for troubleshooting purposes? (Select two.)

- A. cabling layout
- B. zoning map
- C. configuration layout

- D. topology map
- E. naming convention

**Correct Answer:** BC

**QUESTION 27**

You are configuring advanced zoning in an enterprise SAN fabric using 5.2x firmware. What is the maximum zoning database size?

- A. 96 KB
- B. 256 KB
- C. 1 MB
- D. 5 MB

**Correct Answer:** C

**QUESTION 28**

Which factors must be considered when validating data availability goals in a SAN solution? (Select two.)

- A. HBA driver version
- B. number of switches
- C. availability of SRM tools
- D. SAN fabric infrastructure
- E. port speed

**Correct Answer:** BD

**QUESTION 29**

You are planning a SAN solution for Your customer. What is the most important SAN design consideration?

- A. Define a disaster recovery plan.
- B. Determine the customer's business and IT requirements.
- C. Determine the hardware requirements for the customer's most critical business application.
- D. Use devices from a single vendor.

**Correct Answer:** B

**QUESTION 30**

When is zoning required? (Select three.)

- A. when the number of nodes or ports in the SAN exceeds the storage system connection limit
- B. when mixing OpenVMS and Tru64 UNIX operating systems connected to the same storage subsystem
- C. when the SAN performance does not meet the needs of the customer's application environment
- D. when there are known interaction problems between different hardware platforms
- E. when mixing operating systems that are currently only supported in homogeneous SANs
- F. when inter-switch linktrunking between core switches is implemented

**Correct Answer:** ADE

**QUESTION 31**

What is the best SAN topology for a many-to-many distributed data locality?

- A. meshed fabric
- B. fat tree backbone fabric

- C. ring fabric
- D. cascaded fabric

**Correct Answer:** B

**QUESTION 32**

What is the maximum number of inter-switch links (ISLs) that can be used in an 8/20q Fibre Channel switched fabric?

- A. 2
- B. 4
- C. 6
- D. 8

**Correct Answer:** C

**QUESTION 33**

When designing a SAN, what must you consider when integrating existing applications?

- A. Current I/O profiles should be adequate.
- B. Software must have all the latest patches installed.
- C. Applications require local disk installation.
- D. Applications must be SAN aware.

**Correct Answer:** A

**QUESTION 34**

Which phases are part of SAN deployment? (Select four.)

- A. migrating
- B. preparing the SAN for production
- C. maintaining
- D. performance monitoring
- E. time and resource planning
- F. validating
- G. budget planning

**Correct Answer:** BCEF

**QUESTION 35**

What must you ensure when designing a SAN solution that integrates old and new components?

- A. All interconnected switches must operate at the same speed.
- B. Host bus adapters (HBAs) must all be the same type.
- C. New cables must be used to interconnect switches and old cables can be used to connect hosts.
- D. Switches must have compatible firmware and persistent identifier (PID) versions.

**Correct Answer:** D

**QUESTION 36**

How can oversubscription in a SAN be prevented?

- A. Add more devices.
- B. Add more ISLs.
- C. Use shorter distance cables.
- D. Limit the number of ISLs.

**Correct Answer:** B

**QUESTION 37**

Your customer is concerned about IT spending and requests that all components used in the SAN design be fully utilized. What is the impact on scalability?

- A. High utilization does not impact scalability.
- B. Downtime will be increased when expanding.
- C. Expansion will require migration to a different topology.
- D. Expansion will not be possible.

**Correct Answer:** B

**QUESTION 38**

What is the final phase when planning an HP SAN solution?

- A. Perform a SAN architecture and situation assessment.
- B. Document the availability, performance, and management requirements.
- C. Document the deployment strategy and obtain customer signoff.
- D. Select the best-fit HP supported SAN topology.

**Correct Answer:** C

**QUESTION 39**

Your customer's IT staff is highly experienced in designing, deploying and maintaining an HP SAN infrastructure. They would like 24 x 7 hardware and software support. Which HP premium hardware and software support package will you recommend?

- A. Critical
- B. Support Plus 24
- C. Proactive 24
- D. Support Plus

**Correct Answer:** B

**QUESTION 40**

Which switch vendor is supported in all dual-fabric, interoperable, heterogeneous SAN configurations?

- A. Qlogic
- B. Brocade
- C. Cisco
- D. McData

**Correct Answer:** B

**QUESTION 41**

When a SAN is designed using HP SAN Design Reference Guide best practices, which customer benefits are provided? (Select two.)

- A. interoperability
- B. homogeneous environment
- C. no downtime for SAN upgrades
- D. flexible design and deployment
- E. preferred HP SAN support

**Correct Answer:** AD

**QUESTION 42**

What are characteristics of an Enterprise Backup Solution? (Select two.)

- A. online backup without application downtime
- B. load balancing through multiple paths
- C. an environment which allows shared libraries
- D. high bandwidth connectivity
- E. automatic failover and failback in a multipath environment

**Correct Answer:** CD

**QUESTION 43**

Which Fibre Channel routing method uses zoning to allow communication between devices in independent fabrics?

- A. B-Series LSAN
- B. C-Series VSAN
- C. B-Series Virtual Fabric
- D. M-Series ZSAN

**Correct Answer:** A

**QUESTION 44**

What is tiering of a SAN?

- A. grouping devices by function
- B. moving DAS devices in a SAN
- C. implementing zoning in a fabric
- D. connecting the host and the accessed storage devices to the same SAN switch

**Correct Answer:** A

**QUESTION 45**

Which fabric rule is valid?

- A. All switches in a fabric must have the same domain ID.
- B. The time service must be started and synchronized at installation time.
- C. Routing must be configured manually if switches from different vendors are present in the same fabric.
- D. All switches in a fabric must have a unique domain ID.

**Correct Answer:** D

**QUESTION 46**

What are benefits of SAN deployment? (Select two.)

- A. file level access
- B. improves operating system mirroring performance
- C. reduces application response time
- D. inexpensive hardware
- E. centralized data

**Correct Answer:** CE

**QUESTION 47**

What is the goal of a disaster recovery plan?

- A. Mask outages from customers.
- B. Rapidly restore access to critical business applications.
- C. Improve the level of disaster tolerance.
- D. Avoid interruptions to business systems.

**Correct Answer:** B

**QUESTION 48**

What must be considered when joining distant switches with nonrouted FCIP?

- A. The FSPF algorithm will favor the IP based link.
- B. Switches will need to maintain individual namespace maps for every connected switch.
- C. The switches will merge into a single fabric.
- D. Fibre Channel traffic will take priority over all other traffic in the IP network.

**Correct Answer:** C

**QUESTION 49**

How does NAS differ from SAN?

- A. SAN accesses data at block level.
- B. SAN is based on JBOD technology.
- C. NAS switches are more flexible than SAN switches.
- D. NAS is industry standard compliant.

**Correct Answer:** A

**QUESTION 50**

What are benefits of SAN-based backup? (Select two.)

- A. higher data locality
- B. high bandwidth
- C. universal support
- D. centralized control
- E. distributed archiving

**Correct Answer:** BD

**QUESTION 51**

What describes a fully meshed fabric?

- A. hierarchical switch arrangement
- B. inter-switch links from each switch to every other switch
- C. storage hosts connections to the marginal switches
- D. maximum of three hops from end to end

**Correct Answer:** B

**QUESTION 52**

What is a benefit of routing between fabrics compared to merging fabrics?

- A. reduced cost
- B. WWN conservation
- C. service interruption isolation
- D. zoning elimination

**Correct Answer:** C

**QUESTION 53**

Which type of HP Devices would be appropriate for the network displayed in the exhibit? Select three.

- A. MPX100
- B. MPR400
- C. MPR600
- D. MDS9220i
- E. MPX110
- F. MDS9222i

**Correct Answer:** BEF

**QUESTION 54**

Which protocol is used to back up and restore a B-series switch configuration?

- A. HTTP
- B. ICMP
- C. FTP
- D. TFTP

**Correct Answer:** C

**QUESTION 55**

What does the HP StorageWorks Utility Ready Storage program provide to the customer? (Select two.)

- A. cell based storage that forms part of a grid architecture
- B. the ability to pay monthly, based on the amount of storage capacity configured for use
- C. optimized storage that can be shared between multiple customers
- D. the ability to pre-provision what has not yet been purchased
- E. a pricing solution allowing selection of the appropriate storage and software configuration

**Correct Answer:** BE

**QUESTION 56**

Your customer wants to consolidate multiple SAN islands with B-Series and M-Series switches in a B-Series Meta SAN. What should you be knowledgeable about to successfully consolidate the SAN? (Select two.)

- A. Multi-protocol Router Blade (MP Router Blade)
- B. C-Series inter-VSAN routing (IVR)
- C. B-Series 400 Multi-protocol Router (400 MP Router)
- D. B-Series 200 Multi-protocol Router (200 MP Router)
- E. B-Series Virtual Fabrics with inter-fabric routing (IFR)

**Correct Answer:** AC

**QUESTION 57**

Which advantages does the HP SAN design philosophy approach provide when designing a storage network? (Select three.)

- A. a comprehensive list of compatible products and support offerings
- B. support for diverse geographic data locality requirements
- C. incremental scaling over time by adding capacity and features as necessary
- D. a way to implement HP technology products in the data center with minimum impact

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