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Vendor: HP

Exam Code: HP0-J65

Exam Name: Designing HP SAN Networking 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. HP StorageWorks 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 non-routed 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
- E. a method to migrate from other vendors' storage products to HP storage products
- F. flexibility in SAN design to meet the widest possible range of requirements

Correct Answer: BCF

QUESTION 58

What is the minimum bend radius of HP SAN fiber optic cables?

- A. 20 mm
- B. 25 mm
- C. 30 mm
- D. 40 mm

Correct Answer: B

QUESTION 59

What does the HP SAN management strategy propose? (Select two.)

- A. Automate policy-based management.
- B. Ensure multiple points of management for heterogeneous SANs.
- C. Optimize functionality by reducing the number of currently available management levels.
- D. Implement inter-SAN provisioning using target based management.
- E. Simplify storage management using standardized web-based graphical user interfaces (GUIs).

Correct Answer: AE

QUESTION 60

Your customer with a limited budget has a requirement for a storage array that will connect Apple Mac clients, Windows 2003, HP-UX, Linux, and VMWare ESX servers. Which array do you recommend?

- A. EVA6100
- B. MSA2012fc
- C. EVA4400
- D. MSA2012i

Correct Answer: C

QUESTION 61

You are connecting storage, servers and tape libraries in the same SAN fabric. What is the best practice for designing this environment? (Select two.)

- A. Create a second zone for the HBA and associated tape devices only if the host runs Windows.
- B. Create an additional zone for the HBA and associated tape devices.
- C. Ensure each zone includes both host HBAs and each target device is added to the zone.
- D. Create only one zone that includes both the HBA and associated tape devices.
- E. Ensure each zone has only one HBA (initiator) and each target device is added to the zone.

Correct Answer: BE

QUESTION 62

Which software product allows you to define alarm thresholds and monitor port state changes in a SAN?

- A. Fabric Watch
- B. SWCC
- C. Global Reporter
- D. Command View

Correct Answer: A

QUESTION 63

Which statements are true about the 8/20q Fibre Channel switch? (Select two.)

- A. It can only be used as an edge switch.
- B. It supports plug-and-play compatibility.

- C. It supports multi-switch networks with up to 6 switches and 3 hops.
- D. It supports only SFP8 transceivers.
- E. It has a base of 12 ports enabled, with 4-port increments.

Correct Answer: BC

QUESTION 64

Which SAN extension technology should you propose if the distance between the data centers is 600 km?

- A. WDM
- B. FCIP
- C. Fibre Channel with long-wave transceivers
- D. ATM

Correct Answer: B

QUESTION 65

You implemented an HP StorageWorks XP solution for a company with confidential personal data. The customer is concerned about data security when deleting a LUN and needs additional security for data deletion. Which HP StorageWorks Product should you recommend?

- A. HPStorageWorks XP FlexVol
- B. HPStorageWorks XP Flex Copy
- C. HPStorageWorks XP Data Shredder
- D. HPStorageWorks XP Data Guard

Correct Answer: C

QUESTION 66

Your customer has a SAN with B-series switches and an extension using certified third party Coarse Wave Division Multiplexing (CWDM) products. Which statement is true?

- A. The distance between the two data centers is in the range of more than 35 km up to 500 km.
- B. CWDM Fibre Channel SFPs are available as wavelength-specific 1270 to 1410 nanometer SFPs.
- C. The solution uses CWDM chassis at each site that accommodate up to two active optic CWDM multiplex plug-in modules.
- D. The distance between the two data centers is in the range of 10 km to 35 km.

Correct Answer: A

QUESTION 67

To incorporate local cross VRAID replication into an EVA4400 design, which HP StorageWorks software option must you include?

- A. HP Business Copy EVA with Replication Solution Manager
- B. HP StorageWorks Cluster Extension EVA
- C. HP Storage Mirroring with many-to-one replication
- D. HP Continuous Access EVA with Replication Solution Manager

Correct Answer: A

QUESTION 68

When write-back caching is enabled, which tasks are performed in the background?

- A. cache data; rotate
- B. CPU processing; seek
- C. rotate;xFR

D. xFR; seek

Correct Answer: C

QUESTION 69

You are proposing an extended SAN. At what distance must you propose FCIP rather than WDM?

- A. below 100km
- B. between 100km and 200km
- C. between 200km and 400km
- D. above 500km

Correct Answer: D

QUESTION 70

Which setting needs to be applied to R_A_TOV and E_D_TOV in an interoperable fabric?

- A. Both must be set to the default setting.
- B. R_A_TOV must be set to a value of 15000.
- C. E_D_TOV must be set to ON.
- D. R_A_TOV must be set to OFF.

Correct Answer: A

QUESTION 71

Which fabric rules are valid in a homogeneous SAN environment? (Select two.)

- A. Routing must be configured manually if switches from different vendors are present in the same fabric.
- B. All switches in a fabric must have a unique domain ID.
- C. At installation time, the time service must be started and synchronized.
- D. All switches in a fabric must have zoning configured.
- E. A domain ID of 8 is not valid; this is reserved for HP-UX.

Correct Answer: BE

QUESTION 72

You want to create customer documentation that will include SAN topology diagrams that can be presented in Microsoft Visio format. Which tools can help you accomplish this? (Select two.)

- A. HP SAN Designer
- B. HP SAN Visibility
- C. HP SAN HealthCheck
- D. HP SAN Navigator
- E. HP Salesbuilder

Correct Answer: AB

QUESTION 73

Your customer has a highly diverse IT environment, which is predicted to grow more diverse over the next few years. Their current management process is extremely complex and costly. They want to simplify their management processes.

Which tool simplifies management by providing a single, scalable remote monitoring and support solution for multiple operating systems and technologies?

- A. WEBES
- B. RISS
- C. RSP

D. HP SIM

Correct Answer: D

QUESTION 74

Why should you use Cisco VSANs and IVR rather than merge fabrics?

- A. to reduce cost
- B. to isolate service interruptions
- C. to provide WWN conservation and allow WWN spoofing
- D. to eliminate the need for local fabric zoning

Correct Answer: B

QUESTION 75

What does an HP Enterprise Backup Solution (EBS) environment provide? (Select two.)

- A. shared libraries, which help centralize management
- B. load balancing through multiple paths
- C. an environment that provides high bandwidth for backup
- D. automatic failover and failback in a multi-homed clustered environment

Correct Answer: AC

QUESTION 76

Which zoning best practice should you follow when storage, servers, and tape libraries are in the same fabric?

- A. For Windows hosts, you create a second zone for the HBA and associated tape devices.
- B. You create one zone per host that includes both host HBAs and each target device.
- C. You create only one zone that includes both the HBA and associated tape devices.
- D. You create a separate zone for each host and associated tape device.

Correct Answer: D

QUESTION 77

What are benefits of implementing the HP SAN management strategy? (Select three.)

- A. enhanced functionality by reducing the number of currently available management levels
- B. simplified storage management applications residing on easy-to-use, easy-to-implement storage management appliances
- C. automated, policy-based management
- D. multiple points of management for heterogeneous SANs
- E. the implementation of inter-SAN provisioning using target-based management
- F. improved functionality by using all currently available management levels

Correct Answer: BCF

QUESTION 78

A customer is using the HP StorageWorks Utility Ready Storage program to gain a flexible pricing solution. What does the flexible pricing solution offer?

- A. ability to pay monthly
- B. ability to pay annually
- C. ability to choose a payment plan
- D. ability to pay quarterly

Correct Answer: A

QUESTION 79

Which HP document provides detailed information on HP StorageWorks EML E-Series tape library configuration and the relevant patches required on the backup application?

- A. HP SAN Design Reference Guide
- B. HP EBS Design Guide
- C. HP EBS Configurator
- D. HP System Insight Manager Planning Guide

Correct Answer: B

QUESTION 80

What are uses of HP StorageWorks Sizing tool? (Select two.)

- A. contains a storage array calculator that produces a valid items list
- B. determines the correct server memory requirement and patch level for a SAN backup implementation
- C. contains a backup calculator that sizes a valid tape rotation and items list
- D. selects the correct memory size required for each server for SAN backup implementation
- E. selects the correct HBA model for valid backup solution

Correct Answer: AC

QUESTION 81

What is an accurate description of a fully meshed SAN fabric?

- A. a switch configuration that uses multiple ISLs between all switches in the fabric
- B. storage ports connected to marginal switches
- C. maximum of seven hops from end to end
- D. hierarchical switch configuration with a minimum of two ISLs

Correct Answer: A

QUESTION 82

In addition to decreasing application response times, what is a benefit of deploying a SAN?

- A. inexpensive hardware can be used
- B. Operating system mirroring performance is improved.
- C. File level redundancy is reduced.
- D. Data are centralized.

Correct Answer: D

QUESTION 83

What should you implement to prevent multiple hosts from gaining access to the same LUN in a non clustered environment?

- A. host-based zoning in the SAN fabric
- B. LUN masking for each LUN using the host WWN
- C. a host operating system type and host UUID
- D. a valid LUN number for each host's WWN

Correct Answer: B

QUESTION 84

When should you implement fabric zoning? (Select two.)

- A. when you want to limit the maximum number of node port in a fabric, based on what is supported by the storage system
- B. when inter-switch link trunking between core switches is implemented
- C. when you want to isolate known interaction problems in a heterogeneous SAN environment
- D. when you want to improve SAN performance when the application runs slowly
- E. when you have HP OpenVMS and Tru64 UNIX operating systems connected to the same storage subsystem

Correct Answer: AC

QUESTION 85

Which statement is true about the HP Enterprise Backup Solution (EBS)?

- A. It is a cost-effective backup solution that incorporates snapshot technology
- B. It is an efficient backup solution that offers high bandwidth with minimal impact on servers
- C. It maximizes ROI while minimizing RPO
- D. It is a backup solution that allows shared LAN backups

Correct Answer: C

QUESTION 86

Which statement is true about EVA6400/8400 firmware and online updates?

- A. There sync of controllers is staggered
- B. After the update, firmware reloads metadata from the disk
- C. An in-memory image of virtual disk metadata is preserved
- D. Firmware is updated on one controller and copied to the second

Correct Answer: C

QUESTION 87

You have been asked to design a storage environment with consideration for performances rather than costs. Which design recommendation should you make? (Select two)

- A. Use Raid5 or Raid6 in write intensive environments
- B. Physically separate sequential and random data patterns
- C. Use fewer larger drives
- D. Use as many small drive as possible
- E. Use host-based disk mirroring

Correct Answer: BD

QUESTION 88

You are designing a fabric topology that has all switches connecting to each other by at least 2 ISLs. Which type of fabric is this?

- A. Bidirectional cascaded topology
- B. Multi-homes ring topology
- C. Fully meshed topology
- D. Core-edge topology

Correct Answer: C

QUESTION 89

When a fibre channel device is connected to a fibre channel switch, which type of service command will the device attempt to perform?

- A. FICON
- B. FLOGI
- C. FINT
- D. CONACK

Correct Answer: B

QUESTION 90

Which SAN component product provides network fault isolation?

- A. 8Gbs SFP
- B. Brocade MPR400
- C. Emulexfibre channel HBA
- D. IP Distance Gateway

Correct Answer: B

QUESTION 91

What is the objective of tiered SAN architecture?

- A. To implement zoning in a fabric to separate disk storage LUNs
- B. To connect the host and the accessed storage devices to the same SAN switch
- C. To allow Fast disk (FC) and slow disk (FATA) to coincide
- D. To group devices by function

Correct Answer: D

QUESTION 92

You propose a centralized LAN backup to your customer who currently uses stand alone external tape drives. What are the benefit of adopting your proposed solution? (Select two)

- A. Shared libraries
- B. Centralized management
- C. larger bandwidth
- D. automated operation
- E. no single point of failure

Correct Answer: BD

QUESTION 93

Which statement are true about SAN zoning? (Select two)

- A. It sets up barrier between different operating system environments
- B. It simplifies multi-vendor switch integration
- C. It controls fabric merges
- D. It controls SAN access at port or device level
- E. it isolates the LUNs within the SAN

Correct Answer: AD

QUESTION 94

Which backup solution model offers the customer the highest bandwidth capabilities and centralized control?

- A. Fiber channel-SAN backup model
- B. Distributed LAN-based backup model
- C. iSCSI-based backup model

D. core-edge model using iSCSI-based backup model

Correct Answer: A

QUESTION 95

You just installed a new Brocade 8Gb/s SAN for a customer. The customer uncovered some legacy 1Gb/s Brocade SAN components that cannot be upgraded, but need to integrate with the new 8Gb/s infrastructure. Which statement are true about compatibility in this situation?

- A. The two are compatible if a small 4Gb/s edge switch is used to enable the legacy device to connect
- B. The two are compatible if the HBA in the legacy host are upgraded to 8Gb/s
- C. The two are incompatible and cannot be mixed
- D. The two are compatible with the use of 4Gb/s SFPs

Correct Answer: D

QUESTION 96

You are preparing an EVA quote for a customer who always purchased a support extension. Which HP service offering must you select to allow support extension to 5 years?

- A. Proactive 5
- B. HP Care Pack
- C. HP support Plus 24
- D. HP support Plus 5

Correct Answer: C

QUESTION 97

You are discussing an EVA 8100 Storage Array with a customer and he asks which services are included. What you tell him?

- A. HP configuration and startup
- B. HP business critical services
- C. HP Care Pack
- D. HP Installation and startup

Correct Answer: D

QUESTION 98

A customer with a limited budget has a requirement for a storage array that will connect Apple Mac Clients, Windows 2003, HP-UX, Linux and VMware ESX servers. Which array do you recommend?

- A. EVA6100
- B. MSA2012fc
- C. EVA4400
- D. MSA2012i

Correct Answer: C

QUESTION 99

What does Brocade Fabric Watch do? (Select two)

- A. Monitors the status of the power supply and the server adapter
- B. Sets the parameter that trigger an alarm
- C. Defines the shortest paths through the fabric and the port WWN
- D. Monitors the server adapter and port state changes

Correct Answer: AB

QUESTION 100

What determine how the HP StorageWorks Utility Ready Storage program allows customer to pay for storage?

- A. The maximum configurable storage in the array
- B. The amount of storage use each day
- C. The configured usable storage capacity
- D. the raw capacity of the installed storage

Correct Answer: C

QUESTION 101

In Brocade web tools, what are valid switch state?

- A. Reconfiguring; up
- B. Marginal; down
- C. Segmented; down
- D. Fragmented; up

Correct Answer: B

QUESTION 102

What does the hp SAN philosophy recommend to address a wide range of storage system requirements?

- A. Use enterprise class hardware and software throughout the datacenter
- B. Use various components that have been sized accordingly
- C. Build on HP best-in-class architecture with multi-vendor products
- D. Use HP architecture to give the customer a better ROI

Correct Answer: B

QUESTION 103

The HP SAN design philosophy meets a range of storage system requirement. What does it provides? (Select two)

- A. incremental scaling
- B. a comprehensive list of compatible products
- C. a migration methodology
- D. a way to implement HP technology
- E. greater flexibility

Correct Answer: AE

QUESTION 104

What is an element of the HP SAN management strategy?

- A. A centralized storage using an in-band management function
- B. Automatic performance optimization using management agents
- C. A policy-driven backup using a storage management console
- D. A policy-driven storage management application that is easy to use

Correct Answer: D

QUESTION 105

When conducting an HP Installation and Startup service, which activity should be done last?

- A. Run Installation Verification Test (IVT)
- B. Document the installation
- C. Install Call Home Software (ISEE)
- D. Provide an orientation session on the product and technology

Correct Answer: D

QUESTION 106

SAN deployment has four distinct phases which include Validating and maintaining. What are the other phases of SAN deployment?

- A. Troubleshooting, re-install application
- B. Preparing the SAN for production, resource and time planning
- C. Performance monitoring and baselining, troubleshooting
- D. Resource and time planning, performance monitoring and baselining

Correct Answer: B

QUESTION 107

After implementing a new SAN solution on a customer site, how should you ensure your customer has the required skills and confidence in their knowledge to minimize support calls?

- A. Recommend IT Infrastructure Library (ITIL) training for the customer's support personnel
- B. Redesign the solution to take into account the technical issues
- C. Using your knowledge on the customer's design, recommend additional customer training
- D. Recommend additional on-site technical support training

Correct Answer: A

QUESTION 108

Your customer is using a Fibre Channel MSL4048 tape library and a MSA2000fc storage system. What should they do to gain optimal tape performance?

- A. Use dedicated HBA for disk and tape connections
- B. Use multipath software for the tape drives
- C. Use redundant paths to the tape drives
- D. Avoid overlapping zones for disk and tape connections.

Correct Answer: D

QUESTION 109

You are designing the initial phase of a large core-edge SAN implementation. Which design consideration should you incorporate?

- A. Start with switches that provide the number of ports that are currently required
- B. Plan to cascade future switches to improve SAN performances
- C. Incorporate large switches at the core and small switches at the edge
- D. Always plan for expansion by allocating additional port in the core

Correct Answer: D

QUESTION 110

What should you do to check supportability and maximum configuration, when mixing different generation of brocade switches?

- A. HPStorageWorks SAN Components Compatibility Guide
- B. HPStorageWorks Fabric Deployment Release Notes

- C. HPStorageWorks SAN Design Reference Guide
- D. HPStorageWorks Switch Installation Manual

Correct Answer: C

QUESTION 111

Prior to installing new equipment into an existing environment, you want to find out the current levels of firmware and drivers of HBA and SAN switches. Which HP tool can help you to achieve this quickly?

- A. HP Instant Support Enterprise Edition (ISEE)
- B. IT Resource Center (ITRC)
- C. HPStorageWorks Survey Utility
- D. HPStorageWorks SAN Visibility

Correct Answer: D

QUESTION 112

What are HP recommendation to maximize SAN Fabric performances? (Select two)

- A. Position switches with high port speed in the edge of a core-edge fabric
- B. MixFibre Channel speeds to minimize risk of oversubscription on ISLs
- C. Do not use the highest speed available for all infrastructure components and devices
- D. Ensure that theFibre Channel Congestion Control (FCC) is enabled on all C-Series switches
- E. Ensure that thereis an equal number of High-Bandwidth application servers and storage systems

Correct Answer: AD

QUESTION 113

When merging fabrics from different vendors, which mode must be configured?

- A. VSAN mode
- B. Native mode
- C. Interoperability mode
- D. Mixed Fabric mode

Correct Answer: C

QUESTION 114

What does Remote Support Pack (RSP) provides?

- A. Automated service information for many types of multi-vendor server and storage devices
- B. remote support functionality through Webex sessions
- C. automated hardware support call logging for multi-vendor storage arrays
- D. proactive remote monitoring and support solution for HP server and storage

Correct Answer: D

QUESTION 115

When configuring interoperable fabrics, which timing variables need to match across the fabric using the default setting?

- A. B_B_TOV and R_B_TOV
- B. R_B_TOV and B_D_TOV
- C. R_A_TOV and B_B_TOV
- D. E_D_TOV and R_A_TOV

Correct Answer: D

QUESTION 116

Which fabric rule is valid?

- A. In a C-Series fabric, the default access is Allow All
- B. Routing must be configured manually if switches from different vendors are present in the same fabric
- C. Dynamic Load Sharing (DLS) must be set to the default setting of ON for non-Continuous Access configuration
- D. If HP-UX hosts are in the fabric, the principal switch should have a Domain ID of 8

Correct Answer: C

QUESTION 117

You are required to incorporate a three-site cascaded replication functionality in your SAN design using HP StorageWorks EVA4400. Which software do you need to include? (Select two)

- A. HP Storage Mirroring replication software
- B. HP StorageWorks EVA Cluster Extension
- C. HP Business Copy EVA
- D. HP StorageWorks FlexCopy EVA
- E. HP Continuous Access EVA

Correct Answer: CE

QUESTION 118

Which fabric design allows for no single point of failure with multi-pathing enabled on the hosts?

- A. Single-switch fabrics using Director class switches
- B. Meshed fabric using core edge switches
- C. ring fabric with satellite switch blades
- D. core-edge fabric using Directors at the core

Correct Answer: B

QUESTION 119

You want to add an HP Enterprise Backup Solution (EBS) into your existing SAN Architecture. Which general rule should you follow?

- A. Keep disk and tape devices in the same zones
- B. Implement a multi-tier environment
- C. Use multiple libraries with multiple drives
- D. Use host-centric zones

Correct Answer: D

QUESTION 120

What do you gain implementing Fibre Channel routing in your SAN environment?

- A. Increased SAN scalability
- B. Increased LUN accessibility
- C. Increased device connectivity
- D. Increased fabric resilience

Correct Answer: A

QUESTION 121

Once you have completed the implementation of your solution, documentation will be required. You need to produce a configuration layout document of the SAN design. Which information should you include in the

configuration layout document? (Select two.)

- A. model and serial number of all connected hosts
- B. storage controller operating mode parameters
- C. node and device WWNs
- D. a list of all server IP addresses that are connected
- E. SAN switch domain names

Correct Answer: AC

QUESTION 122

Which steps must be taken when migrating from a cascaded topology to a core-edge topology? (Select two)

- A. Calculate the number of ports needed for the additional ISLs
- B. Remove the cross-connected ISLs and leave the outer-connected ISLs
- C. Connect required servers, storage devices, and core switches
- D. Re-cable the ISLs to connect all edge switches to the core switches
- E. Connect high-performance servers to both a core switch and an edge switch

Correct Answer: CD

QUESTION 123

Which component make up a Meta SAN?

- A. Multiple C-series fabric connected using the C-series 8Gb/s switches using FCIP
- B. Multiple B-series fabric incorporating Cluster Extensions
- C. Multiple C-series fabric incorporating Continuous Access
- D. Multiple B-series fabric connected using the B-series 8Gb/s switches with FCR

Correct Answer: D

QUESTION 124

Which element is the most critical in a SAN design that must need NSPOF goals?

- A. MultipleFibre Channel switches
- B. Enterprise class Directorswitches
- C. Two or more redundant fabrics
- D. Quad portfibre channel adapters

Correct Answer: C

QUESTION 125

In which stage of the SAN project proposal is a timeline created?

- A. Deployment
- B. Documentation
- C. Solution Design
- D. Information gathering

Correct Answer: A

QUESTION 126

Which component adds an intelligent layer between tape devices in HP StorageWorks Enterprise Tape Libraries and Fibre Channel fabric?

- A. Virtual Connect Fibre Channel

- B. Command View for Tape Libraries
- C. HP Library and Tape Tools
- D. Extended Tape Library Architecture

Correct Answer: A

QUESTION 127

You are designing a core-edge Brocade SAN solution using a Brocade Director Switch. Which feature found in Fabric OS 6.x enables application segmentation, guaranteeing separate paths through the fabric?

- A. Secure Fabric OS
- B. ISL trunking feature
- C. Traffic isolation zones
- D. Path isolation services

Correct Answer: C

QUESTION 128

Which information can the SAN Visibility tool provide when used in a customer's SAN environment?

- A. A Config file to rebuild the SAN Switch
- B. Fabric switch firmware patch history
- C. Accurate topology diagram
- D. Fabric switch authentication log

Correct Answer: C

QUESTION 129

What is the benefit of adding more interswitch Links in a core-edge fabric SAN?

- A. Reduces the security Database size limit in a fabric
- B. Increases maximum hops count
- C. Improves device utilization
- D. Reduces oversubscription ratio

Correct Answer: D

QUESTION 130

You are presenting a solution to a customer that allows the current legacy distributed storage environment to be changed to a scalable shared storage design. Which feature of HP supported SAN solutions should you emphasize?

- A. Availability
- B. Security
- C. Modularity
- D. Business continuity

Correct Answer: C

QUESTION 131

What can you do with rules and information found in the HP SAN Design and Reference Guide?

- A. Check for compliance of the design against SNIA guidelines
- B. Validate proposed SAN solution
- C. Validate the performance of each disk subsystem in the SAN fabric
- D. Gather information required for each storage device supporting SMI-S management

Correct Answer: B

QUESTION 132

Which HP document provide detailed information on HP StorageWorks EML E-series library configuration and relevant patches required on the backup application?

- A. HP SAN Design and Reference Guide
- B. HP EBS Design Guide
- C. HP EBS Configurator
- D. System Insight Manager Planning Guide

Correct Answer: B

QUESTION 133

You are producing a detailed SAN design. What is an important consideration when determining the necessary availability level?

- A. Business operating requirements
- B. Application performance needs
- C. Hardware redundancy capability
- D. Management functionality needs

Correct Answer: A

QUESTION 134

When do you use a fat tree backbone topology in a SAN design?

- A. For the easiest integration with a SAN backup environment
- B. For the ease of scalability
- C. For maximum availability of end points in the fabric
- D. For many-to-many data locality architecture

Correct Answer: D

QUESTION 135

You want to avoid interaction problems between different hardware platforms in a SAN. How can this be accomplished in the most efficient way?

- A. Separate fabrics are used, which use multiple switches
- B. Homogenous equipment is isolated by switches and ISLTrunking is used between switches
- C. Zoning is implemented to isolate the platforms into compatible groups
- D. Fabric switches use direct connect implementation and do not require any other configuration

Correct Answer: C

QUESTION 136

How many virtual networks can be supported in a SAN fabric using the HP StorageWorks C- series MDS9134 switch?

- A. 40
- B. 32
- C. 16
- D. 8

Correct Answer: C

QUESTION 137

What should you consider in the initial stages of a designing a SAN Solution?

- A. The customers business and IT requirements for the business operations
- B. Whether you will use a single vendor's devices or devices from multiple vendors
- C. Sizing the SAN storage and backup hardware to meet the current performance requirements
- D. The parameters involved in defining a disaster recovery procedure

Correct Answer: A

QUESTION 138

What is gained using LUN masking in a SAN?

- A. The ability to ensure data integrity where multiple hosts can access the same LUN
- B. The ability to segregate the data between multiple servers with different operating systems that have access to the same LUN
- C. The ability to hide the LUN multicast traffic to host in the zone
- D. The ability to assign LUNs to storage Devices

Correct Answer: C

QUESTION 139

How many ports are supported on a 8&20q Fibre Channel in 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 140

What is a function of HP SAN management software (such as HP Storage Essentials SRM) in a complex storage network environment?

- A. It converts all SAN management protocols into SNMP and WBEM
- B. Simplifies and integrates quality and features of HP SAN hardware devices
- C. It introduces SNMP overFibre Channel protocol to simplify alert and notifications
- D. It allows control of multiple SANs over FCIP Networks.

Correct Answer: B

QUESTION 141

In a SAN, what are four operating system considerations? (Choose four.)

- A. Is the O/S supported?
- B. Is SWCC supported with O/S?
- C. What SCSI_version is required?
- D. Are there special conditions?
- E. What value is required for "Command timeout"?
- F. What is the required port topology?

Correct Answer: ACDF

QUESTION 142

What is a design criteria of an EBS solution?

- A. The library is directly attached to a SAN connected backup server.
- B. Storage systems and libraries must be connected to different fabrics.

- C. Libraries are only supported in a Fibre Channel loop environment.
- D. The library is connected to the fabric via a Fibre Channel to SCSI router.

Correct Answer: D

QUESTION 143

What is the function of the HBA in an HP heterogeneous SAN?

- A. allows a server to communicate with other fabrics
- B. provides a direct fiber interconnect between the server and the storage system
- C. allows a server to communicate with other SAN devices
- D. provides a direct SCSI interconnect between the server and the Fibre Channel switch

Correct Answer: C

QUESTION 144

Which document should provide the storage array SSP (selective storage presentation) settings which enable exclusive LUN access for a given server?

- A. cabling map
- B. zoning map
- C. storage map
- D. topology map

Correct Answer: C

QUESTION 145

Developing a SAN solution, you have a complete list of the customer's current environment and future business expectations. What is your next task?

- A. Define a solution which provides the highest level of availability and reliability.
- B. Select products from the most inexpensive vendor.
- C. Clarify and prioritize the customer requirements.
- D. Specify the time frame for the implementation.

Correct Answer: C

QUESTION 146

A customer has multiple disk subsystems in a heterogeneous SAN that includes a mix of Sun and Windows 2003 Servers. Each server currently has its own tape backup device. Currently, backup requires 16 hours and requires three operators. How can an EBS SAN solution benefit this customer? (Choose two.)

- A. It decreases LAN throughput.
- B. It allows the concurrent use of all host-based tape drives.
- C. One server can better handle all the backup for the LUNs in the SAN.
- D. It better utilizes hardware investment.
- E. It simplifies backup management.

Correct Answer: DE

QUESTION 147

What are HP SAN management strategies? (Choose two.)

- A. automated policy based management
- B. automatic performance optimization using sophisticated high performance management agents
- C. simplified, centralized storage management using standardized web based GUIs residing on a storage management appliance

- D. policy based backup using the storage management appliance
- E. storage virtualization using in-band management functionality of the storage management appliance

Correct Answer: AC

QUESTION 148

Which three operating systems require a separate zone in an HP heterogeneous SAN? (Choose three.)

- A. IRIX
- B. OpenVMS
- C. AIX
- D. HP-UX
- E. Linux

Correct Answer: CDE

QUESTION 149

You are connecting two switches using a Fibre Channel cable. You notice a slow flashing green LED on the connected ports. What can this indicate? (Choose three.)

- A. The two switches have been configured with identical domain IDs.
- B. The two switches have different RA_TOV values.
- C. One of the switches is a SAN Switch 8-EL.
- D. The two switches are configured with identical TCP/IP addresses.
- E. The two switches are enabled with different fabric zoning configurations.

Correct Answer: ABE

QUESTION 150

What does ISL trunking on B-series switches ensure?

- A. only FL_Ports will be used for ISL trunking
- B. a round-robin ISL usage is implemented
- C. ISL links are used efficiently to eliminate congestion
- D. packet compression is active on ISL links

Correct Answer: C

QUESTION 151

What characteristic has the greatest impact on disk performance?

- A. drive latency
- B. I/O transfer size
- C. bus type
- D. upgrade from a 1Gb/s HBA to a2Gb/s HBA

Correct Answer: A

QUESTION 152

What are benefits of a SAN? (Choose two.)

- A. data security
- B. direct connect storage
- C. server less backup
- D. LAN-based data movement
- E. centralized storage

Correct Answer: CE

QUESTION 153

What is the connection between two switches called?

- A. LCF
- B. N_Port
- C. ISL
- D. PLOGI

Correct Answer: C

QUESTION 154

What does an EBS sizer tool provide?

- A. a recommendation on tape rotation
- B. a configuration based on cost and performance
- C. an ISV software recommendation
- D. a configured solution for multiple data zones

Correct Answer: B

QUESTION 155

In HP OpenView Storage Data Protector, what is zero downtime backup (ZDB)?

- A. backup from snapshot or mirror
- B. direct backup from disk to tape
- C. online backup
- D. backup from disk to disk

Correct Answer: A

QUESTION 156

In a single fabric, when multiple paths exist between a host and its storage, which statement is true?

- A. The path used is determined by port priority.
- B. The result could be an unstable fabric.
- C. The FSPF protocol determines best route.
- D. Load sharing is automatically set to static.

Correct Answer: C

QUESTION 157

A customer has seven servers running Windows 2003. Five of the servers are running the client component of Backup Exec 9.1. The last server is designated as the ADAMM server with a local 35/70 (2 drive model) tape library. The network interface between all machines is 100BaseT. The customer indicates they are not getting their backups done within their production window. Which EBS solution is the most effective configuration from a performance point-of-view?

- A. attaching an MSL5026 (SDLT drives) to an MDR and the MDR to a 7 port hub
- B. attaching an SSL2020 (AIT 50 drives) to an MDR and the MDR to a hub
- C. attaching an MSL5026 (SDLT drives) to an MDR and the MDR to a SAN16 switch
- D. attaching a TL891DLX (DLT 40/80 drives) to an MDR and the MDR to a SAN16 switch

Correct Answer: C

QUESTION 158

In the SAN configuration, assume a goal of redundancy for everything. How many Storage Management

Appliances are needed?

- A. 2
- B. 4
- C. 6
- D. 1

Correct Answer: A

QUESTION 159

Which two Open SAN Interoperability Initiative solutions have been qualified? (Choose two.)

- A. a fabric consisting of McData directors
- B. a fabric consisting of Brocade switches
- C. a fabric consisting of Emulex switches
- D. a fabric consisting of Gadzoox switches

Correct Answer: AB

QUESTION 160

What is Continuous Access EVA?

- A. host based remote mirroring for implementing intelligent backup solutions
- B. storage management appliance based remote mirroring for disaster tolerant solutions
- C. software on the management server for creating snapshots andsnapclones on an EVA storage system
- D. Fibre Channel storage controller based remote mirroring for disaster tolerant solutions

Correct Answer: D

QUESTION 161

What is a Fibre Channel fabric?

- A. two or more switches connected together, each having its own independent name and routing table
- B. one or more switches connected together, each having its own independent name and routing table
- C. one or more switches connected together, sharing the same name and routing table
- D. two or more switches connected together, sharing the same name and routing table

Correct Answer: C

QUESTION 162

What should be done in preparing the SAN for production to help minimize risk and maximize the probability of success?

- A. thoroughly test individual components before deployment
- B. determine the number of fabric zones required to support your environment
- C. utilize fibre channel switches from only one vendor
- D. deploy in phases

Correct Answer: D

QUESTION 163

What is the maximum supported switch hops between any two devices in an HP supported SAN fabric?

- A. 4 switch hops (3 switches)
- B. 10 switch hops (9 switches)
- C. 3 switch hops (2 switches)
- D. 7 switch hops (8 switches)

Correct Answer: D

QUESTION 164

Which four are distinct phases of SAN deployment? (Choose four.)

- A. resources and time planning
- B. performance monitoring and base lining
- C. troubleshooting
- D. validating
- E. preparing the SAN for production
- F. maintaining

Correct Answer: ADEF

QUESTION 165

Identify the major benefits of NAS compared to a SAN.

- A. interoperability, lower total cost of ownership
- B. high data protection level, lower total cost of ownership
- C. speed, relative simplicity, proprietary solution
- D. speed, reliability, high data protection level

Correct Answer: A

QUESTION 166

What is the maximum allowable number of hops in all fabric topologies?

- A. 9
- B. 2
- C. 7
- D. 5

Correct Answer: C

QUESTION 167

What are two advantages of a cascaded fabric? (Choose two.)

- A. It scales easily for additional connectivity.
- B. It allows a maximum number of switches and least amount of hops.
- C. It is used primarily for disaster tolerant solutions.
- D. It enables the use of online and nearline storage in the same fabric.
- E. It accommodates diverse geographic conditions.

Correct Answer: AE

QUESTION 168

Which two affect data storage performance in an SAN-based EBS environment? (Choose two.)

- A. 50 u m multimode fiber
- B. data compression
- C. 62.5 u m multimode fiber
- D. LAN bandwidth
- E. feed source

Correct Answer: BE

QUESTION 169

What is the maximum distance per cable segment using 50/125 micron multimode cable and short wavelength 2 Gb SFPs?

- A. 300 m
- B. 1 km
- C. 500 m
- D. 100 m
- E. 200 m

Correct Answer: A

QUESTION 170

Which fabric design allows SAN expansion without disruption?

- A. multipath design with zoning
- B. single path with hot-standby switches
- C. multipath design with NSPOF
- D. a mix of switches from different vendors

Correct Answer: C

QUESTION 171

Caution should be used with the switch command `cfgclear`. It clears the _____.

- A. zoning configuration for the entire fabric
- B. zoning configuration only on the switch where issued
- C. World Wide Name on all switches in the fabric
- D. interswitch routing table

Correct Answer: A

QUESTION 172

What is the internal M-series switch latency of a HP Fibre Channel switch?

- A. 650us
- B. 5us
- C. between 1us and 2us maximum
- D. 3us
- E. 33us

Correct Answer: C

QUESTION 173

What is a common feature of 1 Gb and 2 Gb Fibre Channel switches?

- A. use LC to LC cables
- B. 500 m length using 62.5/125 micron
- C. use 2.125 GHz SFPtranceivers
- D. use 50/125 micron cabling
- E. support ISL trunking

Correct Answer: D

QUESTION 174

What is the biggest challenge for a SAN environment designer?

- A. designing a solution to solve the business problem
- B. deciding which SAN topology is easiest to implement
- C. selecting the switch vendor who offers the fastest products
- D. sizing the storage system to meet the current requirements

Correct Answer: A

QUESTION 175

Which HP SAN Management tool is a highly scalable, Java-based application that manages multiple B-Series switches and fabrics in real-time?

- A. Management Appliance Software v2.1
- B. HPStorageWorks High Availability Fabric Manager (HAFM)
- C. HPOpenView Storage Management Appliance III and HP OpenView Storage Management Appliance software v2.1
- D. HPOpenView Storage Node Manager
- E. HPStorageWorks Fabric Manager

Correct Answer: E

QUESTION 176

In the configuration shown, how many SC to LC cables are required?

- A. 5
- B. 1
- C. 3
- D. 4
- E. 2

Correct Answer: D

QUESTION 177

The sum of the wait time (in queues) and the service time is _____.

- A. data rate
- B. utilization time
- C. request rate
- D. response time

Correct Answer: D

QUESTION 178

During login, the node determines connection type using _____.

- A. FLOGI
- B. N_PORT ACK
- C. F_PORT ACK
- D. PLOGI
- E. NLOGI

Correct Answer: A

QUESTION 179

What are the three types of fabric zoning on B-series switches? (Choose three.)

- A. hardware zoning
- B. mixmode zoning

- C. QuickLoop zoning
- D. static zoning
- E. software zoning

Correct Answer: ABE

QUESTION 180

Which four storage systems are supported in an HP heterogeneous SAN? (Choose four.)

- A. MSA1500
- B. RA4000
- C. RA8000
- D. RA7000
- E. EVA5000
- F. XP12000

Correct Answer: ACEF

QUESTION 181

What is recommended to enhance backup performance without affecting application performance on a host?

- A. hardware data compression
- B. single-mode fibre
- C. software data compression
- D. use a push agent

Correct Answer: A

QUESTION 182

What is the maximum number of zones a node can be a member of?

- A. 3
- B. 15
- C. unlimited
- D. 6

Correct Answer: C

QUESTION 183

2Gb Switch Port A Port B In the ring configuration shown, what determines the best route from Port A to Port B? (Choose two.)

- A. zoning
- B. ISL trunking
- C. hop count
- D. FSPF Protocol
- E. translative mode addressing

Correct Answer: CD

QUESTION 184

What is the difference between a partially meshed fabric and a fully meshed fabric?

- A. A partially meshed fabric has fewer ISLs installed supporting preferred data transfer directions and failover.
- B. A partially meshed fabric allows only homogeneous switch configurations.

- C. A partially meshed fabric has an ISL from each switch to each other switch.
- D. A partially meshed fabric is not fully resilient against failures.

Correct Answer: A

QUESTION 185

A single-threaded application running on a single processor has slow performance. Data indicate the slow performance is due to an average disk queue-length of more than two. What can be done to increase performance?

- A. multi-thread the application
- B. use more disk drives in a stripe
- C. upgrade to faster I/O bus
- D. increase CPU speed
- E. upgrade to multi-processors

Correct Answer: B

QUESTION 186

Which three operating systems are supported in an HP heterogeneous SAN? (Choose three.)

- A. Tru64 UNIX
- B. Microsoft Windows 2003 Server
- C. IBM OS400
- D. IBM AIX
- E. HP NSK

Correct Answer: ABD

QUESTION 187

What describes the HP method to implement LUN masking on SAN storage systems?

- A. VSAN
- B. persistent binding
- C. VersaStor
- D. SSP (Selective Storage Presentation)

Correct Answer: D

QUESTION 188

At which step of the SAN implementation process do you begin with the documentation process?

- A. while you perform the final test procedures
- B. before you begin the actual implementation
- C. after you have implemented the switch infrastructure
- D. when you connect and label the cables

Correct Answer: B

QUESTION 189

On a B-series switch, which two commands indicate that a port is configured for QuickLoop? (Choose two.)

- A. quickloopShow
- B. switchShow
- C. qlShow
- D. qloopShow

E. cfgShow

Correct Answer: BC

QUESTION 190

What can prevent oversubscription in a SAN?

- A. use shorter distance cables
- B. limit the number of ISLs
- C. add more ISLs
- D. add more devices

Correct Answer: C

QUESTION 191

An HP customer has a 16 node SAN. The enabled zoning configuration consists of only 1 zone with 12 members in it. The other 4 nodes communicate with _____ members.

- A. 16
- B. 0
- C. 4
- D. 12

Correct Answer: B

QUESTION 192

Which three infrastructure components are supported from multiple vendors in an HP Open heterogeneous SAN? (Choose three.)

- A. operating systems
- B. ATM gateways
- C. switches
- D. hubs
- E. storage systems

Correct Answer: CDE

QUESTION 193

Which three OSs can share a zone in an HP heterogeneous SAN? (Choose three.)

- A. HP-UX
- B. AIX
- C. OpenVMS
- D. Solaris
- E. Tru64 UNIX

Correct Answer: CDE

QUESTION 194

A typical Fibre Channel transmission (based on a Class 3 connection) makes _____ trip(s) over the fiber.

- A. two
- B. four
- C. eight
- D. one

Correct Answer: B

QUESTION 195

Which two options are used to back up and restore a B-series switch configuration? (Choose two.)

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

Correct Answer: AC

QUESTION 196

Which three are included in the four major classifications of SAN management? (Choose three.)

- A. Fabric management
- B. Device LUN management
- C. Storage management
- D. SAN usage and monitoring

Correct Answer: ACD

QUESTION 197

What can you do to minimize communication delays between a host and its storage subsystem?

- A. ensure there is at least one switch hop
- B. configure a maximum of four active host ports per ISL
- C. cross couple multiple ISLs
- D. connect the two devices to the same switch

Correct Answer: D

QUESTION 198

What are three purposes of zoning in a SAN? (Choose three.)

- A. is used to define logical device subsets
- B. provides a way to control SAN access at the node device or port level
- C. enables resource partitioning for management and access control
- D. is used to reduce ISL congestion
- E. provides a way to control packet routing through the SAN Correct

Correct Answer: ABC

QUESTION 199

What are two advantages of centralized LAN backup? (Choose two.)

- A. does not interfere with LAN bandwidth
- B. centralized management
- C. automated operation
- D. no single point of failure
- E. shared libraries

Correct Answer: BC

QUESTION 200

What is the latency of data through fiber?

- A. 2us per km

- B. 650us per km
- C. between 1us per km and 2us per km maximum
- D. 33us per km
- E. 5us per km

Correct Answer: E

QUESTION 201

Which statement applies to trunking on B-Series switches?

- A. Trunking is more efficient than individual ISLs because it is less probable that congestion will be experienced.
- B. Oversubscription is impossible with trunking.
- C. Trunking increases the availability because an I/O is not interrupted, even if the master ISL of a trunk fails.
- D. If one ISL of a trunk fails, the whole trunk fails.

Correct Answer: A

QUESTION 202

What are backup zones created to do? (Choose three.)

- A. support two tape drives
- B. separate tape libraries by OS platforms
- C. restrict the number of servers
- D. isolate LVD and HVD tape libraries
- E. limit access to the tape libraries

Correct Answer: BCE

QUESTION 203

Which document can be used to plan a customized SAN?

- A. HP StorageWorks SAN Design Reference Guide
- B. relevant HPStorageWorks Software Product Description (SPD)
- C. hardware release notes
- D. Brocade SAN Planning and Design Guide

Correct Answer: A

QUESTION 204

In Web Tools, which is a valid switch state?

- A. down
- B. segmented
- C. marginal
- D. reconfiguring

Correct Answer: C

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