

SG0-001qa250

Number: 000-000
Passing Score: 800
Time Limit: 120 min
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CompTIA SG0-001

CompTIA Storage+ Powered by SNIA

Exam A

QUESTION 1

Which of the following is an indication of acceptable storage array performance?

- A. High cache hit ratio
- B. Low MTTF
- C. Low buffer-to-buffer credits
- D. High I/O wait

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

When setting up replication for application spanning multiple LUNs, which of the following replication features should be utilized?

- A. Clone
- B. Snapshot
- C. Semi-synchronous Replication
- D. Consistency Group

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Which of the following is the difference between a Tape Library and a Tape Auto-loader?

- A. A Tape Library supports a tape access door.
- B. A Tape Library supports multiple tape drives.
- C. A Tape Library supports a tape robot.
- D. A Tape Library supports multiple tapes.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

Which of the following requires a MINIMUM of three drives and can survive the loss of up to any two drives?

- A. RAID 1
- B. RAID 0+1
- C. RAID 5
- D. RAID 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

An IP-based datacenter is adding SCSI tape and disk assets to be used by multiple servers. Which of the following will need to be added?

- A. Router
- B. Bridge



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- C. GiGE switch
- D. 10/100 switch

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Which of the following terms refers to the storage infrastructure as a whole?

- A. Fabric
- B. Connection
- C. SAN
- D. NAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Which of the following is the NATIVE capacity of an LTO-4 tape cartridge?

- A. 200 GB
- B. 400 GB
- C. 800 GB
- D. 1TB

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which of the following is the BEST media to quickly backup a portable 30 GB file?

- A. LTO
- B. Flash Drive
- C. DVD
- D. Blu-Ray

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Which of the following is a meshed topology of server nodes, switches, and storage nodes?

- A. Arbitrated loop
- B. FCoTR
- C. Fabric
- D. Zone

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Given the below system requirements:

- Two Fabrics
- Each fabric has 4 switches, 1 core director and 3 edge switches
- A new storage array is being added
- HA environment that is fully redundant

Where would a storage administrator MOST likely place the storage and how many connections would the administrator need to connect the array to the environment?

- A. Connected to the core; all connections from the storage array controller 1 go to fabric A and controller 2 goes to fabric B.
- B. Connected to the edge switches; each controller has its connections balanced between all edge switches on both fabrics.
- C. Connected to the edge switches; controller 1 has its connections balanced between all edge switches on fabric A, controller 2 has its connections balanced between all edge switches on fabric

- D.
- E. Connected to the core; half of the connections to each storage array controller connects to each of the fabrics.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Which of the following is recommended for mirroring data over long distances when the transaction rate is high and impact to the performance on the main site must be minimized?

- A. Replication Consistent
- B. Synchronous
- C. Symmetric
- D. Asynchronous

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

Which of the following replication types is the FASTEST?

- A. Synchronous
- B. Asynchronous
- C. Incremental
- D. Differential

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Which of the following would a company implement in order to ensure that critical system data backups are available in case the datacenter is lost due to a natural disaster?

- A. Snapshots
- B. e-vaulting
- C. OnsiteD2D
- D. OnsiteD2D2T

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which of the following provides a point-in-time, copy-on-write copy of storage data?

- A. RAID hot spare
- B. LUN Migration
- C. Clone
- D. Snapshot

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

An IT Administrator needs to have which of the following devices in order to share an FC storage system with multiple servers on a SAN?

- A. FC router
- B. FC switch
- C. FC hub
- D. FC HBA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

After a cleaning person left the network room, one of the paths to the SAN from Server A is no longer working. The redundant path is working fine. The cables are all connected securely but the HBA fault light is on. The switch shows no light on that port. Which of the following MOST likely occurred?

- A. The HBA was unseated.
- B. The Ethernet connection was briefly lost.
- C. The ISL was broken.
- D. The cable was damaged

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Which of the following Fibre Channel feature allows Virtual Machines to be seen individual^ on the fabric?

- A. VLAN

- B. Virtual Fabric
- C. NPIV
- D. Virtual Storage

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

A SAN administrator is troubleshooting a connectivity issue between a new server and a FC switch. The link is running at 8Gbps and uses a 90 meter (295 feet) optical cable. Which of the following is the FIRST item the administrator should check or perform?

- A. Upgrade the switch firmware to the latest level.
- B. Verify the cable is OM-3 and not OM-2
- C. Run a temporary cable to bypass a patch panel.
- D. Replace the server's host bus adapter.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

An administrator notices an occasional spike in disk IOPS beyond what the disks can handle. Worried about application performance, the administrator talks with users, but the effect seems to have gone unnoticed. Which of the following is MOST likely preventing the users from experiencing the effects of the spikes?

- A. Redundant Fabric
- B. Fiber Channel
- C. Inter-Switch Links
- D. Controller Cache

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which of the following technologies provides an abstraction of physical drives within a storage array?

- A. Fabric virtualization
- B. Disk virtualization
- C. SAN virtualization
- D. Server virtualization

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 21**

Which of the following are requirements for having an ISL between two FC switches? (Select TWO).

- A. Both switches have to be the same model.
- B. The connecting ports need to be E-ports.
- C. The connecting ports need to be F-ports.
- D. Each switch has to have a unique domain ID.
- E. Both switches need to be running the same firmware level.

Correct Answer: BD

Section: (none)

Explanation**Explanation/Reference:****QUESTION 22**

Which of the following features can automatically facilitate a vendor service call in the event of a SAN component failure?

- A. Predictive trending
- B. SMS alert to administrator
- C. Call home
- D. SNMP

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 23**

In order to protect the storage area network, a new firewall has been installed at the company's datacenter. Once installed, all servers lost the remote storage and crashed. Which of the following will restore communication between the servers' network and the SAN?

- A. UDP port 6320 must be permitted between the two networks.
- B. TCP port 3260 must be permitted between the two networks.
- C. All servers must be configured to use hardware iSCSI initiators.
- D. All servers must rescan the LUNs which have been masked by the firewall

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 24**

An administrator would like to employ a strategy to use SAN space more efficiently. Data that has a high I/O

and is accessed often should be moved to SSD and Fiber Channel drives while data accessed less often should be moved to the higher capacity SATA drives. Which of the following features describes this strategy?

- A. SAN snapshot
- B. Storage base lining
- C. Data tiering
- D. Capacity planning

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Which of the following describes an ISL connection?

- A. Between an initiator and a target
- B. Between a specific node (NL-port) and an a switch
- C. From any Loop port within a Loop
- D. Between two fabric switches

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

Two single-port 2Gb HBAs can support up to which of the following?

- A. 200MB/S
- B. 320MB/S
- C. 400MB/S
- D. 4200MB/S

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

How many disks are required to create RAID 3 utilizing five data drives with a hot spare?

- A. 5
- B. 6
- C. 7
- D. 10

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

To provide increased storage availability, the system administrator purchased a storage array with two controllers. Which of the following is a reason a server would lose its storage when only one of the storage controllers fails?

- A. Improper multipathing configuration
- B. Hard zoning has been implemented
- C. The switch fabric is not redundant
- D. SCSI disks have not been properly terminated

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

An administrator would like to combine several ISLs into a single virtual connection. Which of the following technologies should be implemented to accomplish this?

- A. LUN Masking
- B. Trunking
- C. Flow Control
- D. VLAN Trunking

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

An array has five drives, and each drive is 300GB in capacity. If an administrator applies RAID 5, which of the following is the usable capacity of the five drives?

- A. 600 GB
- B. 900 GB
- C. 1.2 TB
- D. 1.5 TB

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

When connecting power for switches and storage equipment with two or more redundant power supplies in a

rack?

- A. Power supplies from a single component should be connected to the same PDU
- B. There should be a separate PDU for each device in the rack.
- C. Power supplies from a single component should be connected to different PDUs.
- D. Each rack should have only one PDU.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Queue Depths can be defined as which of the following?

- A. A value of the FICON status menu
- B. The number of pending SCSI commands
- C. A type of issue with large bandwidth
- D. The number of Layer 2 processes on the fiber

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

An administrator cannot get the initiator to discover an iSCSI target. The switch displays all green lights on the port but by moving the cable from one port on the switch to another, the initiator discovers the target. Which of the following is MOST likely the issue?

- A. Incorrect VLAN setting on the switch
- B. Switch port was shutdown
- C. Incorrect configuration of the target NIC
- D. Incorrect configuration of the initiator NIC

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

A host-based logical volume manager is used to migrate data from an old array to a newer one. The storage administrator has completed the physical connections, zoning, and masking, but the storage volumes from the new array are still not visible on the host. Which of the following steps should be performed NEXT?

- A. Change the HBA driver topology configuration
- B. Replace failed HBA
- C. Run fcping
- D. Bus rescan

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

One of the disks in a RAID 5 configuration on a NAS device has failed. Which of the following technologies would BEST allow a technician to replace the failed disk without interrupting service to the device?

- A. Fibre channel array
- B. Hot spare disk
- C. Disk enclosure
- D. Hot pluggable disk

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

A pair of SAN-attached servers will be clustered using host clustering, which of the following should the storage administrator do to support that configuration?

- A. Volumes should be mapped to one server and then the second server will provide redundancy
- B. Shared volumes should be mapped to both servers via a single storage interface.
- C. Storage volumes from separate storage arrays should be mapped to each server via separate fabrics.
- D. Shared volumes should be mapped to both servers via multiple storage interfaces.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Which of the following cable types has the HIGHEST possible throughput?

- A. Single-mode fiber
- B. CAT6
- C. CAT5
- D. TwinAX

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Which of the following data security types would be used to enforce access management policies? (Select TWO)

- A. Disk encryption
- B. ACL
- C. Physical security
- D. Network encryption
- E. Checksums

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

An administrator would like to implement a storage appliance that is able to provide access to NFS mounts and CIFS shares. Which of the following solutions would MOST likely provide this type of access?

- A. vSAN
- B. iSCSI target
- C. FCoE SAN
- D. NAS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

A security administrator wants to set up various alerts on critical systems to be sent to the administrator's email and cell phone. Which of the following options would need to be configured to ensure the delivery of those alerts?

- A. TFTP
- B. SMTP
- C. SNMPv1
- D. telnet

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

Data on a storage system was last replicated at 8:00 AM and the storage system had a major failure at 9:33 AM. The failure caused all changes to the data between 8:00 AM and 9:33 AM to be lost. The data loss was deemed acceptable based on the 2 hour:

- A. Mean Time to Data Loss (MTDL)

- B. Mean Time Between Failures (MTBF)
- C. Recovery Point Objective (RPO)
- D. Recovery Time Objective (RTO)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

Which of the following can be used to provide storage to multiple virtual servers through a single interface?

- A. Virtual fabric
- B. Virtual storage
- C. LVM
- D. NPIV

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

An administrator wants to select a SAN with high availability features. Which of the following would be MOST applicable to high availability?

- A. Hot swappable components
- B. Solid state drive support
- C. Snapshot support
- D. Email alerting

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

Which of the following copper cables provides the fastest MAXIMUM bandwidth to and from storage devices?

- A. CAT3
- B. CAT5
- C. CAT5e
- D. CAT6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

Which of the following are classified as management protocols? (Select TWO)

- A. WBEM
- B. iSCSI
- C. FCoE
- D. Syslog
- E. SMI-S

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

When installing a disk array, which of the following is MOST important to consider with placement in a storage rack? (Select TWO).

- A. Fire suppression
- B. Weight consideration
- C. Power supply
- D. Rack stabilization
- E. Placement of front door

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

A storage array has a mixture of 150GB, 300GB, 400GB, 500GB, and 1TB drives. Which of the following drives can a 300GB hot spare protect? (Select TWO).

- A. 150GB
- B. 300GB
- C. 400GB
- D. 500GB
- E. 1TB

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

A fibre channel fabric needs to be portioned into smaller subsets to restrict actual communication throughout a fabric and must work on fibre channel level 2. Which of the following implementations must be physically setup

to satisfy these requirements?

- A. Hard Zoning
- B. Soft Zoning
- C. E-port Replication
- D. LUN Masking

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

Which of the following scenarios is the BEST candidate for thin provisioning?

- A. A database application that grows and contracts several times per day
- B. Storage utilization patterns that are slow and/or predictable
- C. Many high-utilization applications that tend to grow at the same time of every month
- D. Unexpected storage usage patterns are common

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

A systematic shutdown of a storage array may be caused by which of the following?

- A. Datacenter ambient temperature is not maintained
- B. Inadequate weight distribution is not balanced
- C. Service processor inaccessibility
- D. Disk cabinet left unsecured

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

A SAN administrator in a large datacenter has a number of racks with devices alerting for high temperatures randomly in the datacenter. There is sufficient cooling capacity for the datacenter. Which of the following design elements will address the random overheating issue?

- A. Cooling unit relocation
- B. Air dams under the raised floor
- C. Incorporate hot-cold isles
- D. Adequate power circuits

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

Which of the following are hot-pluggable devices in a storage array? (Select TWO)

- A. HBA
- B. Power supply
- C. Disk
- D. Drive chassis
- E. ISL

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

Which of the following is an open management standard specifically for storage?

- A. SNMP
- B. SLP
- C. SMI-S
- D. SMTP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

Which of the following are block level transports? (Select TWO)

- A. EXT3
- B. FCoE
- C. iSCSI
- D. NTFS
- E. NFS

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

A user's remote connection halts every time large sequential files are transferred to and from a specific server

running 1 Gb/s iSCSI. The administrator has found no fault with the network, and during these transfers the network utilization of the switch port is very high. After the transfer is complete the user is able to reconnect to the server via terminal services. Which of the following would prevent this problem in the future? (Select TWO).

- A. Use a Dedicated iSCSI network and NIC instead of the production network.
- B. Set up IPSec and CHAP authentication for the iSCSI connection.
- C. Modify firewall rules to prevent terminal session starvation,
- D. Increase the time out of the Buffer to Buffer Credits on the NIC.
- E. Implement QoS or Class of Service features

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

Which of the following storage types is BEST suited for data immutability?

- A. DAS
- B. SAN
- C. CAS
- D. NAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

After installing a server based application, an administrator is failing to connect from their desktop. The administrator is able to ping the server by both IP and DNS name. Which of the following is causing the problem?

- A. Incorrect firewall settings
- B. Incorrect duplex setting
- C. Incorrect VLAN configuration
- D. Incorrect NIC configurations

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

An application database is operating slowly and no faults have been detected on the storage or host. Which of the following will determine if the storage device is performing outside of its normal operating expectations?

- A. Current performance versus recorded baseline
- B. Thorough review of the audit logs of the device

- C. Forecast and capacity planning trend
- D. Thorough review of the switch and storage event logs

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

Which of the following tape drive features allows multiple devices to be backed up simultaneously?

- A. Compression
- B. Shoe-shining
- C. Multi-streaming
- D. Multiplexing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

Which of the following storage technologies makes use of E-ports and F-ports?

- A. FC-AL
- B. SATA
- C. FCP
- D. SAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

A technician, in a machine room, accidentally drops a floor tile on a fiber optic cable running from a single path host to a Fibre Channel switch. Which of the following symptoms would be MOST likely to occur if the cable is not replaced?

- A. The host will be visible to the switch but not see any defined volumes
- B. The host bus adapter will fail
- C. The switch SFP will fail
- D. The host will not be visible to the switch

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

Which of the following encryption methods is being described when a secure encrypted tunnel is created between a host and a storage device, but the data stored on disk is not encrypted?

- A. Data At-Rest Encryption
- B. Host Encryption
- C. Network Encryption
- D. Data In-Flight Encryption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

An Exchange Completion Time (ECT) gives a technician information about which aspects of the environment? (Select TWO)

- A. Shows potential issues that are occurring and slowing down the network
- B. Tracks the exchange of data omitting the value for 10 latency
- C. Measures the data patterns for troubleshooting connectivity issues
- D. The overall performance of the switches and the connections that are causing bandwidth issues
- E. The general overall performance and 10 latency of the network

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

Which of the following is a SAN initiator?

- A. Target mode Fibre Channel adapter
- B. Host Bus Adapter
- C. CIFS Ethernet interface
- D. SAN switch SFP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

The storage administrator is planning for growth and wants to ensure that the system's applications will not crash due to not having enough disk space. The storage administrator is also trying to avoid creating waste by installing more physical disk capacity than is required. Which of the following solutions would the storage administrator implement?

- A. LUN provisioning
- B. VLAN assignments
- C. Thin provisioning
- D. Load balancing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

A storage administrator is troubleshooting lack of connectivity between an iSCSI-initiator and iSCSI-target that is located behind a firewall. The firewall has the following active rule base:

Allow udp port 3260

Allow tcp port 443

Allow icmp all

Deny all

Which of the following is the MOST likely issue?

- A. iSCSI does not function behind a firewall due to the RPC protocol.
- B. iSCSI also requires TCP/3260 to be allowed.
- C. The issue is not firewall related as iSCSI is not a TCP/IP-based protocol.
- D. iSCSI does not function behind a firewall due to NAT requirements.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

Which of the following computes a combined value of all pages and stamps the value on the tape media to be used to verify that whole backup?

- A. Differential backup
- B. D2D2T
- C. Page checksum
- D. Backup checksum

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

Which of the following would MOST easily prevent zoning conflicts and fabric segmentation?

- A. Ensure zoning information from a new storage switch is cleared before adding it to the fabric.
- B. Only configure zoning once at installation; reconfigure all switches if zoning must change.
- C. Create separate fabrics as zoning can only be configured on one switch.
- D. Configure zoning information on the HBA's not the storage switches.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

From a disaster recovery perspective, which of the following solutions would provide the MOST redundancy and high availability options?

- A. Data center with a single point of failure
- B. An infrastructure with a cold site
- C. An infrastructure with a hot site
- D. Datacenter with a cache battery backup and cache mirroring option for all servers

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

Incoming data is detected as duplicate and is removed, allowing reduction of storage consumption. This is called which of the following?

- A. Single instance storage
- B. In-line deduplication
- C. Hierarchical data storage
- D. Post-process deduplication

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

Buffer-to-buffer credit is used for which of the following?

- A. Managing number of available buffers on target
- B. Controlling the number of packets initiator can send in sequence
- C. Controlling frame flow on Fibre Channel link
- D. Configuring the buffers used to store frames in switch

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 72**

Which of the following are current rotational speeds for Fibre Channel and SAS based hard drives? (Select TWO)

- A. 3400 RPM
- B. 5400 RPM
- C. 7000 RPM
- D. 10,000 RPM
- E. 15,000 RPM

Correct Answer: DE

Section: (none)

Explanation**Explanation/Reference:****QUESTION 73**

A system administrator has recently replaced a failed redundant HBA. Which of the following **MUST** be done in order to connect the LUNs to the replacement HBA?

- A. The iSCSI initiators must be restarted on the affected servers
- B. All drives must upload the new HBA firmware before it becomes active
- C. The SAN must rebuild the newly installed HBA's file system.
- D. The SAN zone must be configured for the new WWPN

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 74**

A storage system with a small number of 1TB disk drives has an issue involving high latency for an OLTP application. Which of the following items should the storage administrator consider **FIRST**?

- A. Replace the 1TB disk drives with 2TB disk drives.
- B. Increase the number of disk drives installed in the storage system
- C. Incorporate a new RAID array composed of SATA drives.
- D. Reduce the current amount of cache used by the controllers.

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 75**

When enabling Jumbo Frames for iSCSI operations, which of the following is true?

- A. It is a tunneling feature and only needs to be supported at the endpoints.
- B. It is incompatible with IPSec due to encryption functionality.
- C. Recommended size for Jumbo is 64K, which is max size of a SCSI packet.
- D. Must be supported end to end or performance problems in the network may occur.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

Which of the following backup methodologies would BEST be used to provide an instant copy of the current data within the same disk group?

- A. Snapshot
- B. Clone
- C. Incremental
- D. Differential

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

The best practice for ensuring high I/O performance is

- A. Making the logical volumes the same size as the physical disk.
- B. Dedicating the physical disks to logical volumes.
- C. Spreading the logical volumes across all logical disks using striping.
- D. Spreading the logical volumes across all logical disks using concatenation.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

Which of the following RAID levels uses parity?

- A. RAID0
- B. RAID 1
- C. RAID 0+1
- D. RAID 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

When considering the BEST design for a SAN environment, which of the following is the MOST pivotal concept design flaw?

- A. Long distance connections
- B. Three phase power
- C. Single point of failure
- D. Fully redundant fabrics

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

A storage administrator is reporting loss of connectivity between two datacenters that are connected via a fibre channel within close proximity. The network administrator verifies that the new fiber optic cable installed between the two sites is not the cause of this issue. Which of the following is the MOST likely cause of this network outage?

- A. Insufficient buffer credits
- B. Crossover cable is needed
- C. Faulty SFP
- D. Straight-thru cable is faulty

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

The technician has been told to install a cable between buildings for a new 4Gbps link. The distance between the buildings is approximately 500 meters (1640 feet). Which of the following cable options should be used?

- A. Single-mode
- B. CAT6
- C. Multimode
- D. Twin AX

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

Host-based volume management can be used to virtualize which of the following?

- A. Storage from multiple arrays
- B. Multiple operating systems
- C. SAN fabrics from remote data centers
- D. Multiple tape devices

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

An administrator installs a second HBA into a server for redundancy. Now the server is reporting that there are two storage devices available whereas before there was only one. Which of the following additional steps should the administrator take?

- A. Install a new HBA that is the same model as the old HBA
- B. Install and configure multipath software.
- C. Mask the second LUN to hide it from view.
- D. Move the HBA connection to a redundant switch.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

A storage administrator is tasked with creating a disaster recovery solution for an application with Recovery Time Objective (RTO) of two minutes and Recovery Point Objective (RPO) of five minutes. In the event of complete site failure which of the following techniques should be used? (Select TWO).

- A. Replication
- B. CAS
- C. Tape Backups
- D. Snapshotting
- E. VTL Backups

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

A new SAN volume has been presented and mounted on a server, but poor write performance is exhibited. Which of the following should be investigated to determine potential causes?

- A. HBA persistent bindings
- B. Alignment of the partition along physical disk track boundaries
- C. The HBA topology configuration

D. The MTU size for jumbo frames and alignment along switch boundaries

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

A system administrator has added a new LUN and is unable to see the storage from a server. Which of the following should the system administrator perform to see the newly created storage from the server?

- A. A LUN rescan should be performed on the SAN.
- B. An fctraceroute should be performed on the server
- C. An fcping should be performed on the SAN.
- D. A disk rescan should be performed on the server.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87

Which of the following is a neighbor discovery protocol that sends out and receives detailed Layer 2 network information to other connected access devices and can be used by any vendor?

- A. FCOE
- B. LDAP
- C. CDP
- D. LLDP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

Which of the following terms describes the management of a device on the same connection as storage resources offered to the host?

- A. Storage Management Initiative-Specification (SMI-S)
- B. Out-Of-Band Management
- C. In-Band Management
- D. Network Data Management Protocol (NDMP)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

A file system has been created on a logical volume spanning multiple LUNs. During a backup, high latency is observed on the LUNs but only on one LUN at a time. The MOST likely cause for the problem is which of the following?

- A. The file system is not spread across enough physical spindles.
- B. The partitions of the logical volume were concatenated.
- C. The file system is being used by other applications.
- D. There is too much I/O activity on the physical disks from other applications.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

Which of the following provides high availability? (Select TWO).

- A. Multipath
- B. Hot spare
- C. RAID0
- D. Snapshot
- E. Zoneset

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:



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QUESTION 91

Which of the following is typically used to make a networked file system available to a server running a Windows operating system?

- A. NFS
- B. iSCSI
- C. CIFS
- D. FCIP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

After a server reboot, the server no longer can connect to the iSCSI network. The switch port shows no connection and moving the cable to a new port did not produce a positive result. Which of the following would be the BEST next step?

- A. Disable and re-enable the switch configuration
- B. Replace the FC cable
- C. Disable the firewall
- D. Replace the NIC

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

Some users are reporting performance issues with a newly deployed web server. While running a protocol analyzer, the system administrator is able to capture both iSCSI and TCP port 80 traffic on the same subnet. Which of the following can the system administrator implement to separate iSCSI from other network traffic?

- A. VLAN
- B. Jumbo frames
- C. LUN masking
- D. Multipathing

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

A new host has been added to the SAN and new LUNS have been created for the host's use. The administrator has created an alias for the host WWPN and placed that alias in to a zone. Which of the following must the administrator do NEXT to enable connectivity between the host and storage array?

- A. Add the initiator to the zone and enable the configuration.
- B. Add a zone for the array and enable the configuration
- C. Add the target to the zone and enable the configuration.
- D. Add another alias to the zone and enable the configuration

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

Which of the following is the main difference between NAS and DAS?

- A. NAS cannot be shared amongst multiple computers
- B. DAS can offer a fault tolerant design
- C. DAS does not use network devices.
- D. NAS uses an HBA. DAS does not use an HBA

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 96

Which of the following would benefit the MOST from deduplication?

- A. Database
- B. Virtualized servers
- C. Compressed videos
- D. Compressed photos

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 97

FCoE uses which of the following types of transport?

- A. Fibre Channel
- B. FDDI
- C. iSCSI
- D. Ethernet

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 98

Which of the following describes the function of an ISL?

- A. Link between two initiators
- B. Link between two Fibre Channel switches
- C. Link between one target and one initiator
- D. Link between two targets

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

Which of the following will be required to be able to read the data on an encrypted LTO-4 backup tape, if the tape has to be imported at the DR target site?

- A. Encryption keys from the source site
- B. An LTO-3 tape drive which supports encryption
- C. Plain text cipher key from the source site
- D. IPSec encryption keys and ACLs from the source site

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 100

Which of the following technologies enables storage blocks to be reused following data deletion?

- A. Redundant fabrics
- B. Thin reclamation
- C. Parity protection
- D. Storage virtualization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 101

Which of the following data replication technologies has the GREATEST impact on an application's I/O performance to the source data?

- A. Synchronous
- B. ISL trunking
- C. Semi-synchronous
- D. Asynchronous

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 102

Which of the following must be done before powering down a storage array?

- A. Delete the hot spares on the storage array
- B. Ensure no I/O is being written to the storage array
- C. Defrag all volumes from the storage array

D. Uninstall the HBA drivers on all the servers

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 103

Which of the following supports commands such as open, close, append, and delete, and is commonly accessed via a drive letter, mount point, or UNC semantic?

- A. Object Based/Content Addressable Storage
- B. Block Level Architecture
- C. Cloud Based Storage
- D. File Level Architecture

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 104

Which of the following is the BEST way to increase performance of a storage array?

- A. Use larger capacity drives
- B. Increase number of spindles
- C. Use SATA drives
- D. Decrease number of attached hosts

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 105

Which of the following should be unique when installing dual controller heads?

- A. Rack location
- B. Firmware
- C. Alias
- D. IP address

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

Which of the following are advantages of iSCSI over Fibre Channel SAN implementations? (Select TWO)

- A. IPv6 compatibility
- B. Use of existing infrastructure
- C. Security compliance
- D. Higher storage capacity
- E. Faster integration

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 107

Which multi-server storage infrastructure is BEST for high I/O, random based access, and low latency applications?

- A. NAS
- B. SAN
- C. JBOD
- D. DAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 108

Which of the following is a security risk inherent to using port zoning?

- A. Physical access to the switch could allow unauthorized access to data.
- B. Encryption of data in-flight is not compatible with port zoning.
- C. Tape-based encryption is not compatible with port zoning.
- D. WWN-spoofing on the SAN fabric could allow unauthorized access to data.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 109

An initiator can be defined as which of the following?

- A. A host that requests or submits I/O to or from target.
- B. A disk that submits data to cache for availability.
- C. A switch port that provides SAN connectivity.
- D. A front-end storage port that checks for SAN connectivity.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

Which of the following layers of the FCP are replaced by Ethernet when using FCoE?

- A. FC0 and FC1
- B. FC1 and FC2
- C. FC2 and FC4
- D. FC3 and FC4

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 111

Which of the following replication types depends on receiving an ACK from the remote system and guarantees a zero data loss solution?

- A. Synchronous
- B. Asynchronous
- C. Point in time
- D. Differential

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 112

An application's characteristics are write/read intensive, random access, and small data objects. In this situation, which of the following disk types would be BEST suited?

- A. SAS -450 GB, 10k RPM
- B. FC- 300 GB. 15k RPM
- C. SATA-1TB, 7.2k RPM
- D. FC-450GB, 15kRPM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 113

Disk Cache is BEST utilized to accelerate I/O in which of the following? (Select TWO)

- A. All Reads and Writes
- B. Sequential Reads
- C. Random and Sequential Reads
- D. Random Reads and All Writes
- E. Random and Sequential Writes

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 114

The storage technician is setting up a zoning implementation within a Fibre Channel fabric and needs to implement a feature on the switches for granting authorization to data between different zones through a unique device identifier. Which of the following would need to be implemented to satisfy this requirement?

- A. Port Zoning
- B. Redundant Fabrics
- C. LUN Masking
- D. WWN Zoning

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 115

Rack stabilization ensures which of the following?

- A. All software and drivers are at current levels
- B. All rack PDUs are in phase
- C. The rack is secured and will not move
- D. Rack cabling is routed for easy maintenance

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 116

Which of the following technologies would be used to connect to traditional Direct Attached Storage (DAS)?

- A. IP
- B. eSATA
- C. iSCSI
- D. NFS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

Which of the following allows FC-SAN devices to query for the addresses of the other devices?

- A. WWNN
- B. Soft zoning
- C. Fabric controller
- D. Name service

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 118

A logical volume:

- A. Is not normally visible to the operating system
- B. Allocates physical capacity as data is written to the volume
- C. Is a single virtual disk to physical disk mapping
- D. Is made up of logical disks

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 119

Which of the following allows an administrator to predict SAN utilization in order to plan the storage department's capital expenditure target?

- A. Forecasting
- B. Base lining
- C. Planning
- D. Trending

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 120

When loading equipment into a new rack, which of the following should be considered?

- A. Power requirements

- B. Environmental concerns
- C. Weight of the device
- D. Antistatic devices

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 121

Which of the following administration tools would be the BEST choice for scripting commands?

- A. Telnet
- B. CLI
- C. GUI
- D. HTTP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

Which of the following explains why a backup tape drive might be "shoe-shining" during a backup?

- A. Read-after-write verification is being used to guarantee data integrity
- B. Data compression is rewriting the data to save space
- C. The tape head is dirty and needs to be cleaned
- D. The backup client is not providing data fast enough

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 123

Two Fibre Channel directors are being installed in a rack. The rack has two power buses, each attached to a separate Power Distribution Unit (PDU). The directors have dual power supplies to supply N+1 power to the directors. In which of the following ways should the power supplies be attached to the rack power busses?

- A. Each director should be connected into a separate power bus.
- B. Each director's power supplies should connect to a separate power bus.
- C. Both directors should be plugged into the same power bus; the second bus should be designated as "Stand-by".
- D. As long as the directors are grounded, it does not matter which bus is used

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 124

When connecting multiple NICs from a server to a switch and eventually to an iSCSI target, each NIC receives its own IP address, and an iSCSI Initiator-Target link is established for each NIC. The OS uses a round-robin technique to write data to presented LUNs. Which of the following describes this setup?

- A. Multipathing
- B. NIC teaming
- C. Link aggregation
- D. Port grouping

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 125

A server needs to be connected to a new SAN via iSCSI, but the system administrator is unable to see any of the LUNs from the server. Which of the following can the system administrator do NEXT to resolve the issue, after verifying correct network configuration and basic network connectivity?

- A. Change the VSAN configuration
- B. Update the iSCSI drivers on the server
- C. Update the firmware on the switch
- D. Update the firmware on all of the SAN drives

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 126

An administrator would like to encrypt the communication between servers and the target in an iSCSI SAN. Which of the following would accomplish this?

- A. TPM Module
- B. IPSec
- C. EFS
- D. CHAP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 127

Which of the following data replication technologies should an administrator use between two storage arrays

1000 miles apart?

- A. Cloning
- B. Snapshots
- C. Asynchronous
- D. Synchronous

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 128

Which of the following set of terms are correctly applied to an archiving solution versus backup solution?

- A. Single version, very long retention, address requirements for compliance
- B. Single version, short retention, address requirements for compliance
- C. Multiple versions, very long retention, address requirements for recovery
- D. Multiple versions, short retention, address requirements for recovery

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 129

A SAN administrator is troubleshooting a synchronized data mirroring issue between the primary and DR datacenters. The datacenters use routed FCIP traffic over a WAN for the mirror traffic. The mirror relationships are breaking at an increasing frequency. Which of the following actions should the administrator take FIRST?

- A. Use FC Ping to measure the FCIP latency
- B. Increase the WAN's bandwidth
- C. Add more FCIP routers to the fabrics
- D. Stop all mirror traffic

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

Which of the following network technologies should an administrator use to replicate data between datacenters across the Pacific ocean?

- A. CWDM
- B. VSAN
- C. MAN
- D. WAN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

After working for the past six months, a server no longer can see its storage. A switch port where the server is connecting indicates that there is no connection. An administrator moves the cable to the next switch port but it also shows no connection. Which of the following should be checked FIRST?

- A. Switch firmware
- B. Server HBA
- C. Zoning configuration
- D. Switch SFP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 132

Which of the following features can be used to reduce storage usage for a volume that has been assigned to a host and been completely formatted (e.g. not quick formatted)? (Select TWO).

- A. COW Snapshots
- B. Thin Provisioning
- C. Tiered Storage
- D. Zero Space Reclamation
- E. Deduplication

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 133

An administrator is tasked with selecting new storage architecture. The company values data transfer speeds over capacity. Which of the following should the administrator select for MAXIMUM throughput?

- A. Gigabit iSCSI
- B. SAS-2
- C. 2Gb Fiber Channel
- D. SATA2

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

A new LUN is added to a mission critical host from the storage array on which the host is currently already accessing 2 LUNS; which of the following is the FIRST step required to utilize the new LUN?

- A. Change the zoning to allow the host to see the new LUN.
- B. Initiate a rescan from the host.
- C. Initiate a Name Server update.
- D. Reboot the host.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 135

In a SATA environment, which of the following types of data transfer is performed? (Select TWO).

- A. LB As
- B. Multiplex
- C. Pipelined
- D. Parallel
- E. Serial

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 136

Which of the following statements is true about LTO tapes?

- A. LTO-5 supports drive level encryption while LTO-4 does not
- B. LTO-5 has nearly double the native capacity of LTO-4
- C. LTO-5's max speed is more than double the speed of LTO-4
- D. LTO-4 has double the archival lifespan of LTO-2

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 137

Which of the following port types is used for connecting two switches in the same fabric?

- A. E-port
- B. F-port
- C. G-port
- D. U-port

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 138

Which of the following RAID levels can sustain any double disk failure?

- A. RAID 1+0
- B. RAID 3
- C. RAID 5
- D. RAID 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 139

Which of the following is the MINIMUM number of disks needed to implement RAID 5?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 140

An administrator has assigned a LUN to a host with two WWPNs. The WWPNs are attached to separate fabrics on the SAN. In a zone on each fabric the WWPN is assigned to two targets, associated to the LUN. How many paths does the host have to its LUN?

- A. 2
- B. 4
- C. 8
- D. 32

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 141

Which of the following deduplication methods will minimize host CPU utilization? (Select TWO)

- A. Appliance
- B. Virtual
- C. Inline
- D. Software
- E. Agent

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 142

A new storage network is being designed. Which of the following would be the MOST appropriate process to address storage planning?

- A. A disk to disk to tape grandfathering scheme so as to ensure that an appropriate backup scheme is in place.
- B. A tiered approach utilizing short term online, medium term near-line, and long term offline storage,
- C. A Virtual Tape Library with multi-path IO to provide high availability connected via 10GBps SAN switches.
- D. Fixed data retention periods so that storage is rolled over based on an aging cycle.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 143

A server appears to be writing data to a storage system slower than it used to. Which of the following practices would BEST help to validate that there is a problem?

- A. Setting alerts
- B. Setting thresholds
- C. Forecasting
- D. Compare to baseline

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 144

For provisioning SAN volumes to high performance OLTP databases, which of the following describes a best practice?

- A. Volumes for the redo logs should be created from different disks than the data volumes.
- B. Volumes for each database should be provisioned on separate fabrics.
- C. Volumes for indexes, redo, and archive logs should be on separate storage arrays from the data.

D. Volumes for the redo logs from each database should be created from the same disks.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 145

Which of the following technologies enables a single HBA to be used by multiple virtual machines with each one addressed independently on a SAN?

- A. NPIV
- B. VSAN
- C. LVM
- D. VLAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 146

Which of the following network device functions can reduce host CPU utilization?

- A. TOE
- B. FCoTR
- C. Link aggregation
- D. Jumbo frames

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 147

Multiple SAN-attached LUNs are allocated to a host. The LUNs are then mapped to the operating system as a single disk by which of the following?

- A. Mount Point
- B. File System
- C. Volume Group
- D. Logical Volume Manager

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 148

When deploying a LUN from a storage array to a host over a SAN, which of the following steps must be done for the host to see the LUN? (Select TWO).

- A. The switches must be zoned to allow the host to see the array
- B. The host must authenticate against the array for SCSI access
- C. The host must enable the Persistent Binding Function on its HBA
- D. The switches must be zoned to allow the host to see the LUN
- E. The array must be configured to expose the LUN to the host

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 149

A mission-critical server with a dual-port HBA is used in a highly available SAN environment. The SAN administrator has been advised this server has a single point of failure. Which of the following actions should the administrator take to correct the configuration?

- A. Create a server cluster for the application to increase performance.
- B. Purchase additional switches to create a redundant fabric.
- C. Install another HBA and move one connection to the new HBA.
- D. Partition the storage resource with one partition per fabric.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 150

Which of the following configurations is aimed at increasing data availability and protecting a storage system from becoming unavailable due to a partial network outage?

- A. Redundant SFPs
- B. Multipathing
- C. Hot swappable storage enclosures
- D. Dual power supply

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 151

A technician has a host connected to two fibre channel fabrics using two different HBAs. There are many errors on one HBA. There are also many errors on the switch port where the error HBA is connected. Which of the following would the technician check FIRST to troubleshoot the problem?

- A. Zoning configuration

- B. SFP
- C. Storage HBA
- D. Switch trunking

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 152

Which of the following defines the difference between fibre channel switch fabric and fibre channel arbitrated loop technologies?

- A. Bandwidth vs.I/O
- B. B. Speed vs. Distance
- C. Shared vs. Dedicated
- D. Coax vs. Fiber

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 153

Which of the following is found on a Gigabit Ethernet network and helps increase throughput while consuming fewer CPU cycles?

- A. Runt frames
- B. Perfmon
- C. Datagrams
- D. Jumbo frames

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 154

Which of the following is BEST suited for seldom accessed data but needs to be retrieved in less than one minute from the time of the request?

- A. Tape
- B. Solid State disks
- C. SATA disks
- D. SAS disks

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 155

A storage administrator must reduce the traffic load over the LAN and secure data back-ups over the LAN. Which of the following items should the administrator consider FIRST?

- A. Host a LAN data compression application
- B. Change the data retention policy
- C. LAN-free in-line data encryption
- D. Content Addressable Storage on the LAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 156

Which of the following backup techniques provides the SLOWEST restore time?

- A. Full
- B. Differential
- C. Incremental
- D. rsync

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 157

Given a scenario in which a host on a Fibre Channel SAN suddenly loses access to multiple SAN storage volumes, an administrator should FIRST investigate which of the following? (Select TWO).

- A. Cable connection failure
- B. VLAN failure
- C. GBIC/SFP failure
- D. NIC failure
- E. Name Server failure

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 158

There are two FC switches in an ISL configuration, and the fabric has a segmented fabric error. Which of the following is the MOST likely cause?

- A. FC switch IP addresses are the same on each switch
- B. FC switch names are the same on each switch.
- C. FC switch FWs are different on each switch.
- D. Domain IDs are not unique on each FC switch

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 159

Which of the following classifies a hop in a fiber channel environment?

- A. Within a path, connection between an initiator and its target
- B. Within a network, connection from switch to storage
- C. Within a path, connection between two switches
- D. Connection between any two devices

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 160

The ability to move source data from enterprise disk to secondary disk is known as which of the following?

- A. Deduplication
- B. Tiering
- C. Shared access
- D. Multipathing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 161

An Internet service provider must support highly available storage arrays. Which of the following technologies supports the ability to swap hardware without downtime?

- A. Hot pluggable components
- B. Fiber attached storage controllers
- C. RAID 5 configuration
- D. Dual power supply

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 162

Which of the following terms describes multiple devices connected to the same switch port within a SAN?

- A. Thin provisioning
- B. Worldwide port name
- C. Worldwide node name
- D. Oversubscription

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 163

A customer has a SQL server with data and log files stored on the SAN. Data is replicated to an offsite SAN every night for the database and every hour for the log files. In the event of a failure, the SQL server can be brought up at the offsite location within 5 hours. Which of the following is true?

- A. The RTO is 5 hours, the RPO is one hour and the copy is disk to disk
- B. The RTO is one hour, the RPO is 5 hours and the copy is disk to tape
- C. The RTO is one hour, the RPO is 5 hours and the copy is disk to disk
- D. The RTO is 5 hours, the RPO is one hour and the copy is disk to tape

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 164

Which of the following is the LARGEST benefit from the LTO-4 specification regarding AES-GCM?

- A. Data compression
- B. Error detection and correction
- C. Tape cleaning
- D. Tape encryption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 165

Which of the following would BEST help to reduce Recovery Time Objectives (RTO) of data restoration from long-term archive?

- A. VSAN

- B. VTL
- C. ATL
- D. LVM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 166

A server with two HBAs is connected to two identical fabrics and configured as active-active, load balanced with automatic failover. Under normal conditions, traffic is moving across both fabrics equally. During a maintenance window to upgrade code on the switches, Fabric A is taken offline. This server reports all paths lost. The switch on Fabric B shows no light on the port connected to HBA B. Which of the following should be the FIRST step to troubleshoot the problem?

- A. Check HBA B on the server.
- B. Remove the server from production.
- C. Replace the cable on Fabric A.
- D. Replace the switch in Fabric B

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 167

An administrator wants to hide storage resources from servers that should not have access to them. Which of the following can be configured on the storage controller to accomplish this?

- A. Zone
- B. LUN Masking
- C. Port masking
- D. VLAN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 168

A SAN administrator is setting thresholds on trunks composed of four ISLs per trunk group. To allow for the loss of one ISL, which of the following values should be used for the bandwidth threshold of each ISL?

- A. 50%
- B. 67%
- C. 78%
- D. 90%

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 169

A new DAS populated with ten 160GB drives is in a RAID6 configuration. Which of the following is the usable disk space?

- A. 800MB
- B. 1.28TB
- C. 1.44TB
- D. 1.6TB

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 170

A server has two HBAs. Each HBA is connected to a fabric and zoned to the same storage array. HBA0 is passing traffic, while HBA1 is connected but not passing traffic. This is known as which of the following?

- A. Fully-pathed passive redundant
- B. Multipath active-active
- C. Single path active-passive
- D. Multipath active-passive

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 171

Which of the following ports is MOST commonly used with FC-AL?

- A. F-port
- B. N-port
- C. NL-port
- D. TE-port

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 172

An administrator is having trouble explaining the physical location of a LUN's data on an array to the company's

CEO. The CEO has requested a visual representation of this data. Which of the following would be the BEST way for the administrator to show the data?

- A. GUI via Telnet
- B. GUI via SSH
- C. GUI via SNMP
- D. GUI via HTTPS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 173

An 8Gb SAN switch port will autosense which of the following port speeds? (Select TWO).

- A. 1Gb
- B. 2Gb
- C. 4Gb
- D. 10Gb
- E. 16Gb

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 174

Which of the following has the ability to minimize CPU overhead?

- A. Jumbo Frames
- B. Class of service
- C. TOE
- D. VLAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 175

A technician is working with a storage array that has 15 total slots for hard drives. The technician is tasked with configuring two separate RAID 5 volumes of the same size, sharing a global hot spare. 1TB drives are the largest available for this model storage array. Using the 1TB drives, which of the following is the LARGEST raw volume size attainable?

- A. 6 TB
- B. 7 TB
- C. 7.5 TB

D. 8 TB

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 176

An administrator has four drives, and each drive is 300GB in size. If the administrator applies RAID 6 to four drives, which of the following is the usable capacity of the four drives?

- A. 300 GB
- B. 600 GB
- C. 900 GB
- D. 1.2 TB

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 177

An administrator has just replaced a single-port HBA and needs to complete zoning changes to replace the current alias. The administrator creates the new alias, adds it to the existing zone, and then deletes the old alias. When applying the new configuration, an error states that the original alias is not found and the configuration cannot be applied. Which of the following steps did the administrator miss?

- A. Create a new zone with the new alias and add it to the existing configuration
- B. Remove the original zone and recreate it with the new alias.
- C. Rename the original alias before deleting it.
- D. Remove the original alias from the zone before deleting it.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 178

In a redundant fabric configuration, which of the following is the MINIMUM number of single port HBAs that a server must have, to sustain a single fabric failure?

- A. 1
- B. 2
- C. 4
- D. 8

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 179

When implementing an HA fabric, which of the following is the MINIMAL requirement for running cables from each fabric to a storage unit?

- A. At least one connection to each array controller
- B. At least two connections to each controller port
- C. Attach fabrics to the same controller
- D. Separate protocols for each fabric are recommended

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 180

Which of the following cable types should be used to connect two storage arrays for replication if they are separated by a distance of 900 meters (2953 feet)?

- A. CAT6 Ethernet
- B. Multimode fiber
- C. Twin AX
- D. Single-mode fiber

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 181

Which of the following is used when interconnecting FC switches?

- A. HBA
- B. CAN
- C. ISL
- D. Trunking

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 182

Three phase power has been connected to a rack with a storage array. Which of the following would be best practice if each of the three phases were routed to independent Power Distribution Units (PDUs)? (Select TWO).

- A. Each PDU (Phase) should be consumed before moving to the next phase to preserve circuits.

- B. Three phase power is not supported with most Datacenter Class Equipment.
- C. To prevent phase imbalance, partnered power supplies should connect to the same PDU (Phase).
- D. Each device should use two separate PDUs to ensure power redundancy.
- E. Each PDU (Phase) should be loaded equally where possible to balance the power.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 183

In a storage array with four controller nodes and two PDUs per node, how many redundant circuits should be used at a MINIMUM?

- A. 2
- B. 4
- C. 8
- D. 16

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 184

When connecting a host from one fabric to a storage subsystem on another fabric, which of the following must be used to prevent the fabrics from merging?

- A. CNA
- B. Router
- C. VSAIMs
- D. Dual ports

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 185

Which of the following tools would be used to securely administer and configure various network devices?

- A. Telnet
- B. HTTP
- C. SIMMFV1
- D. SSH

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 186

An administrator is adding replacement drives in a critical network operation center with a very low humidity reading of the following should the administrator do as a precaution? (Select TWO).

- A. Wear an ESD strap
- B. Power the SAN off before replacing the new drives
- C. Lower the room temperature to compensate
- D. Ensure the SAN has proper power groundings
- E. Ensure the new drives are wrapped in antistatic bags

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 187

A database administrator has declared that a database for the Finance department can never age- off its data, even though old data may only be accessed for billing disputes in the future. The storage administrator does not need to use high performance disk to store this old data and chooses to place the database into a multi-tiered group of disks. The array can then move rarely accessed data between tiers as needed. This is called which of the following?

- A. VTL
- B. LVM
- C. HSM
- D. CAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 188

Which of the following name services is used to provide initiators with discovery information?

- A. NIS
- B. DNS
- C. DDNS
- D. iSNS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 189

Which of the following is the purpose of ISL?

- A. Improve performance of NAS array
- B. Expand FC fabric
- C. Improve performance of network
- D. Improve performance of HBA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 190

Which of the following are true when comparing iSCSI and CIFS protocols? (Select TWO).

- A. iSCSI was developed mainly for databases
- B. Server can be booted from iSCSI
- C. iSCSI is used in Fibre Channel
- D. CIFS is commonly used in UNIX
- E. Storage appears as a local disk using iSCSI

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 191

Which of the following has the potential for unexpectedly impacting storage array performance?

- A. WWN-based hard zoning
- B. Multipathing
- C. Host based inline de-duplication
- D. Automated storage tiering

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 192

A datacenter has a hierarchy of multiple storage systems with SSDs, FC disks, SATA disks, and JBODs. Which of the following classifies this arrangement?

- A. LVM
- B. FCoTR
- C. Tiers
- D. HSM

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 193

Which of the following IP storage technologies would BEST allow a technician to connect devices together that are not on the same network switch?

- A. VLAN
- B. WAN
- C. VSAN
- D. LSAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 194

Which of the following is used to identify ports in a switched Fibre Channel fabric?

- A. IP
- B. MAC
- C. DNS
- D. WWN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 195

As data is accessed less frequently, the value of the data:

- A. decreases
- B. stays the same
- C. increases
- D. has no value

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 196

A technician wants to allow remote access to a NAS device. Which of the following network topologies would BEST allow the remote access, while providing for the HIGHEST level of security?

- A. VSAN
- B. LAN
- C. VLAN
- D. MAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 197

Which of the following RAID levels will allow an administrator to lose only two drives within the RAID group and not lose data?

- A. RAID 1+0
- B. RAID A
- C. RAID 5
- D. RAID 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 198

Deduplication reduces storage space utilization by using which of the following methods?

- A. Compression
- B. Thin provisioning
- C. Archiving
- D. Single instance

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 199

Which of the following describes a scenario in which less frequently accessed data is reported for potential data migrations?

- A. Disk defragmentation
- B. Partition alignment
- C. Storage tiering
- D. Wide striping

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 200

A technician has just replaced a bad fiber cable, and is now collecting excess slack in the cable. Which of the following issues **MUST** the technician be aware of in this situation?

- A. Cable length
- B. Connector types on both ends of the cable
- C. Allowed bend radius of the cable
- D. Labeling for the replacement cable

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 201

When reviewing redundancy for power a technician **MUST** keep which of the following in mind?

- A. Circuit division
- B. Antistatic devices
- C. Fire suppression
- D. Proper rack loading

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 202

For which of the following technologies is trending and forecasting **MOST** important?

- A. VSAN
- B. Thin provisioning
- C. Multithreading
- D. LVM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 203

Which of the following storage types utilizes Universal Naming Convention (UNC) addressable storage?

- A. DAS
- B. NAS

- C. SAN
- D. SAS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 204

After one of two FC HBAs had been replaced due to a failure, the storage administrator notices that performance has not returned to normal levels. Which of the following is the MOST likely cause for this behavior?

- A. The new HBA was faulty.
- B. The Fiber Channel cable was faulty.
- C. The server was not rebooted.
- D. The FC switch zoning was not updated

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 205

Which of the following is an analysis and removal of redundant data after a complete backup and after the data has been written to storage?

- A. Inline deduplication
- B. OOS
- C. Post-processing deduplication
- D. CAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 206

Which of the following concepts allows a storage technician to define a MAXIMUM storage capacity while allocating the storage on demand?

- A. Thin provisioning
- B. Snapshots
- C. Thick provisioning
- D. Quotas

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 207

For which of the following thresholds would it be MOST important to set an alert for thin provisioned storage?

- A. Write cache used
- B. Fragmentation percentage
- C. IOPS
- D. Capacity used

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 208

Which of the following protocols are supported by hybrid storage systems? (Select TWO)

- A. CIFS
- B. iSCSI
- C. Tiering
- D. NPIV
- E. FCP

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 209

Which of the following provides the BEST level of security for data traveling across a WAN?

- A. Data destruction
- B. Key Management
- C. Authentication
- D. Encryption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 210

SAN zoning provides which of the following?

- A. A means to mask LUNs for clients
- B. A method with which to divide the fabric into VSANs

- C. A means of partitioning a SAN fabric at the network layer
- D. A means of controlling access to storage at layer 4

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 211

Which of the following BEST defines what the 'ping' command actual proves?

- A. The frame types that can be sent and received by the target device
- B. If the target device responds, then all applications are ready to be utilized
- C. There are no zoning misconfigurations
- D. Connectivity exists between the sender and target devices

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 212

Snapshots will provide the ability to recover from which of the following?

- A. Drive failure beyond used RAID level capability
- B. Users deleting individual files/directories
- C. Complete array failure
- D. Administrator deleting source LUN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 213

Which of the following describes a selection of controller-less drives?

- A. eSCSI
- B. SCSI
- C. JBOD
- D. RAID0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 214

Which of the following BEST describes an advantage of a hot pluggable scenario?

- A. Pluggable when system is down
- B. Disk drive can be changed at anytime
- C. Disk drives can be swapped while doing backup
- D. Disk drive has a hot spot

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 215

Logical volume management (LVM) is based in:

- A. The storage system.
- B. The virtualized SAN file system.
- C. The host.
- D. A NAS appliance.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 216

Which of the following tape drive features protects data from unauthorized use?

- A. Multi-streaming
- B. Multiplexing
- C. Compression
- D. Encryption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 217

A customer wants to present a LUN to a server totaling 5TB. The server will initially use only 100GB. The storage administrator will upgrade the SAN as more storage is needed. Which of the following is the BEST feature to use to present storage to the server while maximizing storage flexibility?

- A. LUN Masking
- B. LUN Snapshot
- C. Thin Provisioning
- D. Thick Provisioning

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 218

An administrator has connected a new server to the network. The server can only gain access to devices located on the same subnet. Which of the following is the problem?

- A. Incorrect firewall settings
- B. Incorrect gateway definition
- C. Bad cable
- D. Incorrect duplex setting

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 219

Which of the following connector types would be used to interface with iSCSI based storage?

- A. IEEE 1394
- B. RJ-45
- C. DB-25
- D. HD68

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 220

Which of the following describes the difference between a write-thru cache and a write-back cache?

- A. Write-back cache decreases disk write performance.
- B. Write-thru cache improves disk write performance.
- C. Write-back cache removes the risk of losing data during write operations
- D. Write-thru cache removes the risk of losing data during write operations.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 221

Which of the following backup types would BEST be used for fast backups and allow for offsite storage?

- A. Tape
- B. D2D2T
- C. Optical
- D. D2D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 222

Which of the following describes a file being written into non-continuous blocks within a file system?

- A. Partition misalignment
- B. Fragmentation
- C. Incompatible RAID level used
- D. Wrong block size

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 223

Asynchronous replication is defined as which of the following?

- A. Data write is acknowledged to the host at the secondary site only, and then sent to primary site as network availability permits.
- B. Data write is acknowledged to the host at the primary site only and then sent to secondary site as network capabilities allow.
- C. Data write is not acknowledged to the host until transfer has been verified by secondary controller.
- D. Data write is acknowledged to the host at both primary and secondary simultaneous^ and transferred as network capabilities allow.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 224

Off-site backups are MOST likely to help provide which of the following?

- A. Business continuity
- B. High availability
- C. Scalability
- D. Serviceability

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 225

Which of the following are common data rates for SAS traffic?

- A. 532Mb/s, 1064Mb/s
- B. 100Mb/s, 1Gb/s, 10Gb/s, 100Gb/s
- C. 1.5Gb/s, 3Gb/s, 6Gb/s, 12Gb/s
- D. 1Gb/s, 2Gb/s, 8Gb/s, 16Gb/s

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 226

Multimode 50 micron fiber cable can be used for which of the following scenarios? (Select TWO)

- A. 1Gbit Fibre Channel connection for FICON system 1000 meters (3281 feet) from switch
- B. 10Gbit Fibre Channel connection between directors 500 meters (1640 feet) apart
- C. 8Gbit Fibre Channel connection for storage 450 meters (1476 feet) from switch
- D. 4Gbit Fibre Channel connection between switches 50 meters (164 feet) apart
- E. 2Gbit Fibre Channel connection for Server 300 meters (984 feet) from switch

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 227

A way to increase bandwidth from a host to a storage device, utilizing an FC storage area network, is by configuring which of the following on the host?

- A. Teaming
- B. Multipathing
- C. Link aggregation
- D. Trunking

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 228

Which of the following is a SAN protocol?

- A. FCoE
- B. DCB
- C. DTE
- D. IDE

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 229

An administrator needs to provide access to a remote directory on a server. Which of the following would the administrator use to accomplish this?

- A. Create a file system
- B. Create a volume group
- C. Create a mount point
- D. Create a logical disk

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 230

Which of the following will MOST likely remove a single point of failure in the storage network architecture?

- A. Adequate heating and ventilation to each rack
- B. Floor and rack loading within acceptable weight limits
- C. Multiple power circuits available in each rack
- D. Maintained and tested fire suppression equipment

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 231

A support method which will automatically notify the support vendor of a problem would be an example of which of the following monitoring types?

- A. Call home
- B. fcping
- C. NPIV
- D. SMI-S

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 232

Which of the following is a benefit of tiered storage?

- A. Lowers cost over time
- B. Provides redundancy to all clients
- C. Increases physical security
- D. Enables disaster recovery

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 233

An administrator has configured storage for a server, and would like to ensure that other systems do not accidentally gain access to this server's storage by plugging into the system's port. Which of the following would provide a solution?

- A. RCSN
- B. Port zoning
- C. Virtual fabric
- D. WWN zoning

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 234

An administrator sets up CHAP on an iSCSI client to provide which of the following?

- A. Encryption of data between server and client
- B. Authorization of client's encryption keys
- C. High availability of remote storage
- D. Authentication for remote data storage

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 235

Servers, storage, and switches in a SAN all have multiple power supplies in N+1 configuration. Each server and storage system has dual connections to the fabric. Which of the following BEST describes this configuration?

- A. High availability, fully redundant SAN

- B. Fully resilient SAN
- C. Fully redundant SAN
- D. High availability components

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 236

Which of the following disk drives is MOST common in a SAN?

- A. IPI
- B. EIDE
- C. FC
- D. IDE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 237

Which of the following drive types would provide the LOWEST performance and reliability?

- A. FATA
- B. SCSI
- C. SAS
- D. FC

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 238

Which of the following terms matches the situation where a new file system is connected to a specific directory on an existing connected file system?

- A. Mount Point
- B. Device Map
- C. Logical Volume
- D. Volume Group

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 239

Which of the following is the appropriate tool for an administrator to use to provide a file system to a host with assigned storage LUNs?

- A. LBA
- B. LVM
- C. VBA
- D. FBA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 240

An administrator, in preparation for a new server with dual HBAs connected to multiple fabrics, created a new WWN zone to add a new server and storage connections to Fabric A. The administrator then copied the zone in to the zoning configuration for Fabric B and activated it in both fabrics. How many paths will the new server see to the storage array when it is brought online the next day?

- A. Zero, the zoning configuration conflict will negate all paths
- B. One, the zone written for Fabric A will not work in Fabric B.
- C. Two, each storage array has a path in each fabric.
- D. Four, there are two ports of storage in each fabric

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 241

Which of the following RAID levels is also known as mirroring?

- A. RAID 0
- B. RAID 1
- C. RAID 3
- D. RAID 5

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 242

Which of the following maybe a contributing factor to a higher than average disk failure rate?

- A. High cache hit ratio
- B. Inadequate cooling

- C. Non-redundant power
- D. Improper RAID level

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 243

Which of the following would be the BEST approach to keep a single controller storage subsystem on a single fabric from being a single point of failure?

- A. Dual controllers
- B. Multi-path
- C. Dual core switches
- D. Redundant fabrics

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 244

A server's multi-pathing software indicates a failed path to the storage. Which of the following steps should be done FIRST to troubleshoot the issue?

- A. Verify the port LEDs are lit along the connection
- B. Replace the fiber cable.
- C. Replace the HBA.
- D. Update the drivers and firmware on the HBA.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 245

Which NAS protocol integrates with Windows Active Directory to provide and manage file security?

- A. NFS
- B. CIFS
- C. SSH
- D. NDMP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 246

An administrator would like to connect a server to the local VSAN fabric. Which of the following would MOST likely need to be installed in the server?

- A. FCHBA
- B. SAS expander
- C. iSCSI controller
- D. TOE card

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 247

In which of the following ways can a storage administrator provide LUN security on a storage array?

- A. LUN masking
- B. LUN provisioning
- C. LUN controlling
- D. LUN establishing

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 248

Which of the following is an advantage of providing HA data storage?

- A. Reduces complexity
- B. Reduces power
- C. Reduces down-time
- D. Reduces hardware costs

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 249

Data STaaS refers to which of the following?

- A. Remote storage purchased from a third party on a subscription basis
- B. Setting up a server to run a storage service such as iSCSI or NFS
- C. Setting up a client to run over Ethernet or SAN storage
- D. Service contracts provided by SAN vendors for immediate replacement of faulty hardware

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 250

An administrator has just enabled multi-path connectivity to a storage array, but the host can only detect a single path. The switches detect both HBA ports. Which of the following fabric components is the MOST likely cause?

- A. The host was plugged in to the wrong switch port.
- B. Zone configuration is incorrect, or not applied.
- C. Host fiber is faulty or SFP is unsupported.
- D. Switch port ISLs are too busy to support the new requests.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



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