

## PassGuide.SG0-001\_537.QA

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# PassGuide

## CompTIA SG0-001

## CompTIA Storage+ Powered by SNIA



Added Explanations and Exhibits most of the questions.



I have corrected few questions and now score will be 95% above Guaranteed.



Best stuff I have ever used for my exam preparation. I love Exam collection guys.



This is the best VCE I ever made. Try guys and if any suggestion please update this.



This is a new VCE file with new questions. All the questions are super valid.

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## **Exam A**

### **QUESTION 1**

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 2**

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.  
Real 9  
CompTIA SG0-001 Exam
- D. All servers must rescan the LUNs which have been masked by the firewall

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

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 4

Which of the following describes an ISL connection?



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- 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:**

up-to-date.

#### QUESTION 5

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

- A. 200MB/S

- B. 320MB/S  
Real 10  
CompTIA SG0-001 Exam
- C. 400MB/S
- D. 4200MB/S

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 6**

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:**

Explanation:

#### **QUESTION 7**

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:**

Explanation:

**QUESTION 8**

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  
Real 11  
CompTIA SG0-001 Exam
- B. Trunking
- C. Flow Control
- D. VLAN Trunking

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:**

Explanation:

**QUESTION 9**

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:**

Explanation:

**QUESTION 10**

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:**

Explanation:

#### **QUESTION 11**

Queue Depths can be defined as which of the following?

- A. A value of the FICON status menu  
Real 12  
CompTIA SG0-001 Exam
- 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:**

Explanation:

#### **QUESTION 12**

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:**

Explanation:

**QUESTION 13**

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:**

Explanation:

**QUESTION 14**

One of the disks in a RAID 5 configuration on a NAS device has failed. Which of the following

Real 13

CompTIA SG0-001 Exam

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:**

Explanation:

**QUESTION 15**

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:**

Explanation:

**QUESTION 16**

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:**

Explanation:

**QUESTION 17**

Real 14

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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:**

Explanation:

#### **QUESTION 18**

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:**

corrected and modified.

#### **QUESTION 19**

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 20**

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:**

Explanation:

#### **QUESTION 21**

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:**

Explanation:

#### **QUESTION 22**

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:**

Real 16

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Explanation:

#### **QUESTION 23**

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:**

Explanation:

#### **QUESTION 24**

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:**

Explanation:

**QUESTION 25**

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
- Real 17  
CompTIA SG0-001 Exam

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 26**

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:**

Explanation:

**QUESTION 27**

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:**

Explanation:

**QUESTION 28**

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 Real 18  
CompTIA SG0-001 Exam
- D. Unexpected storage usage patterns are common

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 29**

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:**

Explanation:

### **QUESTION 30**

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:**

Explanation:

### **QUESTION 31**

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

- A. HBA
- B. Power supply
- C. Disk
  - Real 19
  - CompTIA SG0-001 Exam
- D. Drive chassis
- E. ISL

**Correct Answer:** BC

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 32**

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:**

Explanation:

**QUESTION 33**

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:**

Explanation:

**QUESTION 34**

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).

Real 20  
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- 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:**

Explanation:

#### **QUESTION 35**

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:**

Explanation:

#### **QUESTION 36**

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:**

Explanation:

### **QUESTION 37**

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

Real 21

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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:**

Explanation:

### **QUESTION 38**

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:**

Explanation:

**QUESTION 39**

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:**

Explanation:

**QUESTION 40**

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

Real 22

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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:**

Explanation:

**QUESTION 41**

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:**

Explanation:

**QUESTION 42**

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:**

Explanation:

**QUESTION 43**

Real 23

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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:**

Explanation:

#### **QUESTION 44**

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:**

Explanation:

#### **QUESTION 45**

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?

Real 24

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- 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:**

answer is verified.

#### **QUESTION 46**

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:**

Explanation:

#### **QUESTION 47**

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:**

Explanation:

#### **QUESTION 48**

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

Real 25

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- 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:**

Explanation:

#### **QUESTION 49**

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:**

Explanation:

**QUESTION 50**

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:**

Explanation:

**QUESTION 51**

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

Real 26

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- 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:**

Explanation:

**QUESTION 52**



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:**

Explanation:

#### **QUESTION 53**

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:**

Explanation:

#### **QUESTION 54**

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

Real 27

CompTIA SG0-001 Exam

- 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:**

Explanation:

#### **QUESTION 55**

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:**

Explanation:

#### **QUESTION 56**

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:**

Explanation:

**QUESTION 57**

Which of the following RAID levels uses parity?

- A. RAID 0
- Real 28
- CompTIA SG0-001 Exam
- B. RAID 1
- C. RAID 0+1
- D. RAID 6

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 58**

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:**

Explanation:

**QUESTION 59**

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:**

Explanation:

#### **QUESTION 60**

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

Real 29

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cable options should be used?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 61**

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:**

Explanation:

**QUESTION 62**

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:**

Explanation:

**QUESTION 63**

Real 30

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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:**

Explanation:

**QUESTION 64**

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



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- 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:**

Explanation:

**QUESTION 65**

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**

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**Explanation/Reference:**

answer is up-to-date.

**QUESTION 66**

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:**

Explanation:

**QUESTION 67**

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:**

Explanation:

**QUESTION 68**

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
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**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 69**

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:**

Explanation:

**QUESTION 70**

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:**

Explanation:

**QUESTION 71**

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  
Real 33  
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- D. Replace the NIC

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 72**

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:**

Explanation:

**QUESTION 73**

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: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 74**

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

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- 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:**

Explanation:

**QUESTION 75**

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:**

Explanation:

**QUESTION 76**

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:**

Explanation:

**QUESTION 77**

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:**

Explanation:

**QUESTION 78**

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:**

Explanation:

**QUESTION 79**

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 80**

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

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 81**

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:**

Explanation:

#### **QUESTION 82**

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:**

Explanation:

**QUESTION 83**

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  
Real 37  
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- C. Use SATA drives
- D. Decrease number of attached hosts

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 84**

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:**

Explanation:

**QUESTION 85**

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:**

Explanation:

#### **QUESTION 86**

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

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 87**

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:**

Explanation:

**QUESTION 88**

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:**

Explanation:

**QUESTION 89**

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  
Real 39  
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- D. FC3 and FC4

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



**QUESTION 90**

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:**

Explanation:

**QUESTION 91**

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:**

Explanation:

**QUESTION 92**

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

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- D. Random Reads and All Writes
- E. Random and Sequential Writes

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 93**

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:**

Explanation:

#### **QUESTION 94**

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:**

Explanation:

**QUESTION 95**

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

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 96**

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:**

Explanation:

**QUESTION 97**

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:**

Explanation:

**QUESTION 98**

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

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 99**

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:**

Explanation:

**QUESTION 100**

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:**

Explanation:

**QUESTION 101**

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: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

### Shoe Shining

Tape drives are designed with a minimum threshold level of data transfer rate during read/write operations. If the data transfer rate falls below that level, a tape drive will stop the tape, rewind it for a while, restart the tape, position its read/write head back to the position at which streaming stopped, and resume the read/write operations. This action is referred to as shoe shining because it resembles shining a shoe with a cloth. Shoe shining significantly affects a tape drive's attainable data rate and the life of the tape and the drive.

### QUESTION 102

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:**

Explanation:

### QUESTION 103

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 104**

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:**

Explanation:

**QUESTION 105**

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:**

Explanation:

**QUESTION 106**

Which of the following data replication technologies should an administrator use between two storage arrays 1000 miles apart?

- A. Cloning
- B. Snapshots

- C. Asynchronous  
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- D. Synchronous

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 107**

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:**

Explanation:

#### **QUESTION 108**

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:**

Explanation:

**QUESTION 109**

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

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

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 110**

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:**

answer is valid.

**QUESTION 111**

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:**

Explanation:

#### **QUESTION 112**

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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:**

Explanation:

#### **QUESTION 113**

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:**

Explanation:

**QUESTION 114**

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:**

answer is corrected.

**QUESTION 115**

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:**

Explanation:

**QUESTION 116**

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:**

Explanation:

**QUESTION 117**

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

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

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 118**

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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:**

Explanation:

**QUESTION 119**

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:**

Explanation:

**QUESTION 120**

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:**

Explanation:

**QUESTION 121**

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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:**

Explanation:

**QUESTION 122**

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:**

Explanation:

**QUESTION 123**

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 124**

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:**

Explanation:

#### **QUESTION 125**

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

- A. TOE



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- B. FCoE
- C. Link aggregation
- D. Jumbo frames

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 126**

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 127**

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:**

Explanation:

**QUESTION 128**

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:**

Explanation:

**QUESTION 129**

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

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**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 130**

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:**

Explanation:

#### **QUESTION 131**

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:**

Explanation:

#### **QUESTION 132**

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

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**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 133**

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:**

Explanation:

**QUESTION 134**

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:**

Explanation:

**QUESTION 135**

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:**

Explanation:

#### **QUESTION 136**

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:**

Explanation:

#### **QUESTION 137**

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:**

Explanation:

**QUESTION 138**

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  
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- C. Within a path, connection between two switches
- D. Connection between any two devices

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 139**

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:**

Explanation:

**QUESTION 140**

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:**

Explanation:

**QUESTION 141**

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

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 142**

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:**

Explanation:

**QUESTION 143**

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:**

Explanation:

**QUESTION 144**

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

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

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 145**

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:**

Explanation:

**QUESTION 146**

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:**

Explanation:



**QUESTION 147**

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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:**

Explanation:

**QUESTION 148**

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:**

Explanation:

**QUESTION 149**

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:**

answer is valid.

#### **QUESTION 150**

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:**

Explanation:

#### **QUESTION 151**

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:**

Explanation:

**QUESTION 152**

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 153**

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:**

Explanation:

**QUESTION 154**

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:**

Explanation:

**QUESTION 155**

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 156**

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:**

Explanation:

#### **QUESTION 157**

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:**

Explanation:

#### **QUESTION 158**

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

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**Correct Answer: A**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 159**

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:**

Explanation:

#### **QUESTION 160**

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:**

Explanation:

#### **QUESTION 161**

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).  
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- 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:**

Explanation:

**QUESTION 162**

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:**

Explanation:

**QUESTION 163**

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:**

Explanation:

**QUESTION 164**

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

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 165**

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:**

Explanation:

**QUESTION 166**

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:**

up-to-date.

**QUESTION 167**

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:**

Explanation:

**QUESTION 168**

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:**

Explanation:

#### **QUESTION 169**

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:**

Explanation:

#### **QUESTION 170**

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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:**

Explanation:

#### **QUESTION 171**

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:**

Explanation:

**QUESTION 172**

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:**

Explanation:

**QUESTION 173**

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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:**

Explanation:

**QUESTION 174**

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:**

Explanation:

**QUESTION 175**

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:**

Explanation:

**QUESTION 176**

Real 69

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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:**

Explanation:

#### **QUESTION 177**

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:**

Explanation:

#### **QUESTION 178**

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:**

Explanation:

**QUESTION 179**

A technician has just replaced a bad fiber cable, and is now collecting excess slack in the cable.

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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 180**

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:**

Explanation:

**QUESTION 181**

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

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 182**

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

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storage?

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 183**

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:**

Explanation:

#### **QUESTION 184**

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:**

Explanation:

#### **QUESTION 185**

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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:**

Explanation:

#### **QUESTION 186**

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:**

Explanation:

#### **QUESTION 187**

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

- A. CIFS
- B. 1394 A
- C. Tiering
- D. NPIV
- E. FCP

**Correct Answer: AE**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 188**

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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:**

Explanation:

**QUESTION 189**

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:**

Explanation:

**QUESTION 190**

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:**

Explanation:

**QUESTION 191**

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

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- 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:**

Explanation:

**QUESTION 192**

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:**

Explanation:

**QUESTION 193**

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:**

Explanation:

**QUESTION 194**

Logical volume management (LVM) is based in:

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 195**

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:**

Explanation:

**QUESTION 196**

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:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 197**

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?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 198**

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:**

Explanation:

**QUESTION 199**

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:**

Explanation:

**QUESTION 200**

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

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 201**

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:**

Explanation:

#### **QUESTION 202**

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:**

Explanation:

**QUESTION 203**

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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:**

Explanation:

**QUESTION 204**

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:**

Explanation:

**QUESTION 205**

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:**

Explanation:

#### **QUESTION 206**

A way to increase bandwidth from a host to a storage device, utilizing an FC storage area network,

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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:**

Explanation:

#### **QUESTION 207**

Which of the following is a SAN protocol?

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

D. IDE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 208**

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:**

Explanation:

**QUESTION 209**

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

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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:**

Explanation:

**QUESTION 210**

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:**

Explanation:

**QUESTION 211**

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:**

Explanation:

**QUESTION 212**

An administrator has configured storage for a server, and would like to ensure that other systems

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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:**

Explanation:

#### **QUESTION 213**

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:**

Explanation:

#### **QUESTION 214**

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:**

Explanation:

**QUESTION 215**

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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:**

Explanation:

**QUESTION 216**

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:**

Explanation:

**QUESTION 217**

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:**

Explanation:

#### **QUESTION 218**

Which of the following is the appropriate tool for an administrator to use to provide a file system to

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a host with assigned storage LUNs?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 219**

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:**

Explanation:

#### **QUESTION 220**

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 221**

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:**

Explanation:

**QUESTION 222**

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:**

Explanation:

**QUESTION 223**

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:**

Explanation:

**QUESTION 224**

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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:**

Explanation:

**QUESTION 225**

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:**

Explanation:

**QUESTION 226**

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:**

Explanation:

**QUESTION 227**

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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:**

Explanation:

**QUESTION 228**

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:**

Explanation:

**QUESTION 229**

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:**

Explanation:

#### **QUESTION 230**

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Given three hard drives, which of the following RAID levels would provide fault tolerance and the MAXIMUM amount of capacity?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 231**

A common way to ensure confidentiality of data while being transmitted across an Ethernet network would be:

- A. IPSec.
- B. public key infrastructure.
- C. full disk encryption.
- D. RADIUS.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 232**

Which of the following disk technologies does NOT use moving magnetic media for storing data?

- A. SAS
- B. SSD
- C. SATA
- D. FC

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 233**

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The storage system has been provisioned and a rescan of the devices has been performed within the operating system. A technician sees twice as many devices than were provisioned. Which of the following is the MOST likely cause?

- A. One of the fiber connections is loose.
- B. One of the HBAs is zoned incorrectly.
- C. Multipathing has not been installed or configured.
- D. The technician rescanned the devices more than once.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 234**

Which replication method requires the LEAST amount of space?

- A. Copy
- B. Clone
- C. Snapshot
- D. Mirror

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 235**

Which of the following tools would BEST be used to troubleshoot storage latency issues on a Windows server?

- A. ping
- B. sysmon
- C. ipconfig
- D. perfmon

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 236**

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Which of the following technologies allows Fibre Channel traffic to be carried over Ethernet networks?

- A. SONET
- B. iSCSI
- C. FCoE
- D. TCP/IP

**Correct Answer:** C

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 237**

A server is having random issues communicating with a Fibre Channel direct attached storage system. Which of the following items should the technician replace FIRST?

- A. Host Bus Adapter (HBA)
- B. Storage controller
- C. FC switch
- D. Fiber optic cable

**Correct Answer: D**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 238**

A customer has asked the SAN consultant for help with zoning best practices for a large datacenter. The consultant recommends zones based on which of the following?

- A. Single initiators
- B. Storage array
- C. Operating system
- D. HBA vendor

**Correct Answer: A**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 239**

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Which of the following would be considered a poor candidate for deduplication?

- A. A high performance OLTP database
- B. Tape based backups
- C. A filesystem or share containing unstructured windows files and documents
- D. Disk based backups

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 240**

Which of the following administration tools should a technician use to setup an IP address on a new Fibre Channel switch?

- A. Web-GUI using SNMP
- B. CLI over serial connection
- C. CLI over SSH
- D. Web-GUI over HTTP/S

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 241**

Which of the following can be applied to data stores to conserve storage capacity and/or bandwidth?

- A. Compliance
- B. Archiving
- C. Data deduplication
- D. Multipathing

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 242**

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A storage technician is asked to separate various network segments to group various hosts between layer 2 devices. Which of the following Ethernet network topologies would MOST likely need to be created?

- A. MAN
- B. VLANs
- C. WAN
- D. VSANs

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 243**

Which of the following RAID levels is used for replicating and sharing data among disks and requires a MINIMUM of four disks?

- A. 0
- B. 1
- C. 0+1
- D. 1+0

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:



**QUESTION 244**

Which of the following describes a RAID level 5 implementation?

- A. Used in data intensive or single-user environments which accesses long sequential records to speed up data transfer
- B. Uses mirroring where the data on one drive is duplicated on another
- C. Provides no data redundancy, but has the largest storage capacity
- D. Offers data protection and increased throughput by striping data and parity across all drives

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 245**

Which of the following describes the location within the current accessible file system to which a new file system is made accessible?

- A. Swap space
- B. Mount point
- C. VSAN
- D. VLAN

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 246**

A system administrator has been tasked to create a new LUN for a system that will store sensitive information. The system connects to the SAN via switched fabric.

Which of the following can the system administrator implement in the fabric to improve confidentiality of the data stored in the new LUN?

- A. Hardware initiators
- B. Fiber channel zoning
- C. LUN masking

D. Random SCSI IDs

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 247**

Which of the following is a layer-two protocol used by networked devices to advertize their capabilities?

- A. SMB
- B. SNMP
- C. LLDP
- D. FCoE

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 248**

A system administrator has completed the configuration of the fiber channel switch. All switch ports have been configured the same way, since they connect similar server hardware with similar capabilities and configuration. One of the servers is unable to see its storage. The system administrator moves the server's current connection to a different and unused fiber channel port and the server's storage is now available.

Which of the following is the MOST likely reason for the server not being able to see its storage in its original configuration?

- A. Bad MAU
- B. Bad fiber cable
- C. Bad SFP
- D. Bad NIC

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 249**

A system administrator is tracking the size of data stored on a thin LUN and notices that the LUN is running out of space although the server's file system does not show the same amount of data. Which of the following can the system administrator perform to more accurately track LUN usage?

- A. Thin reclamation
- B. De-duplicate the LUN
- C. Compress the LUN
- D. Thin provisioning

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 250**

In a switched fabric environment there is a need for security control of the FC switching

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infrastructure. Which of the following should be implemented to give the STRONGEST level of protection?

- A. LUN masking
- B. Soft zoning
- C. Hard zoning
- D. Port mapping

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 251**

Node A is a member of SAN Zone 1 and SAN Zone 2. Node B is a member of SAN Zone 2. Node B has just been replaced and the storage administrator is troubleshooting connectivity issues between Node A and Node B. Which of the following is the MOST likely cause of the issue?

- A. Nodes cannot be a member of multiple zones.
- B. Node B is an unauthorized host cabled to the wrong SAN switch.
- C. Zone configuration is causing undesired Registered State Change Notification events.
- D. Zone configuration may need to be updated with the new port WWN.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 252**

In logical volume management, which of the following is the HIGHEST level of abstraction?

- A. Volume Group
- B. Physical Disk Drives
- C. Physical Volume
- D. Logical Volume

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 253**

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In a highly available SAN configuration that guarantees no data loss, which of the following replication approaches is required?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 254**

Which of the following measurements should be used when benchmarking performance between SAN vendors?

- A. IOPS
- B. I/O block size
- C. Random versus sequential I/O writes
- D. Read vs. write ratio

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 255**

Which of the following describes the automatic moving of data between high-cost and low-cost storage devices?

- A. SAN virtualization
- B. SATA
- C. Storage partitioning
- D. HSM

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 256**

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SNMP logs on a storage device show a duplex mismatch alert. Which of the following is the MOST likely cause?

- A. Misconfigured NIC
- B. Incorrect VLAN
- C. Broken cable
- D. Bad port

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 257**

Which of the following attributes can be applied to storage data to save disk space? (Select TWO).

- A. Compression
- B. Deduplication
- C. Replication
- D. Encryption
- E. Virtualization

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 258**

Which of the following backup methods only backs up data that has changed since the last backup of any type?

- A. Progressive
- B. Full
- C. Incremental

D. Differential

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 259**

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Which of the following BEST prevents unauthorized access to storage data via a username/password?

- A. ACL
- B. Encryption
- C. Physical access restrictions
- D. Compression

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 260**

Which of the following LTO versions was the FIRST to support encryption?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 261**

A customer requests that a new SAN enclosure be installed on the top slots of an unused rack. Which of the following is a reason why a technician might deny this request?

- A. Improper airflow from the HVAC is caused by this installation enclosure.
- B. The rack's stability is threatened by the installation enclosure.
- C. Raised floor power comes from below in this installation.
- D. Cable management will be difficult in this setup.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 262**

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A server has an HBA with the address of 23-00-00-1B-23-C4-B5-01. Which of the following properly identifies this type of address?

- A. MAC Address
- B. FCoE map
- C. N-port-ID
- D. WWNN

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 263**

An administrator has 4 SAS drives that the manufacturer lists at 140 IOPS. How many IOPS combined would these drives have in a single RAID 0+1?

- A. 140 Read or 140 Write IOPS



- B. 280 Read or 140 Write IOPS
- C. 560 Read or 280 Write IOPS
- D. 560 Read or 560 Write IOPS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 264**

A server has two HBAs each connected to redundant fabrics. The fabrics have multiple connections to the storage targets. Which of the following is true?

- A. Multipathing will not work in this configuration
- B. Multipathing will not be needed in this configuration
- C. Multipathing will provide high availability
- D. Each HBA is a single point of failure

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 265**

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Which of the following RAID levels will provide the BEST performance for Database Log Drive without jeopardizing the redundancy?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 266**

Which of the following would show a high amount of outstanding I/O on a host when the storage array is too busy processing data from other hosts?

- A. High number for disk queue length field
- B. Low number for MB/sec field
- C. High number for IOPs/sec field
- D. Low number for latency field

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

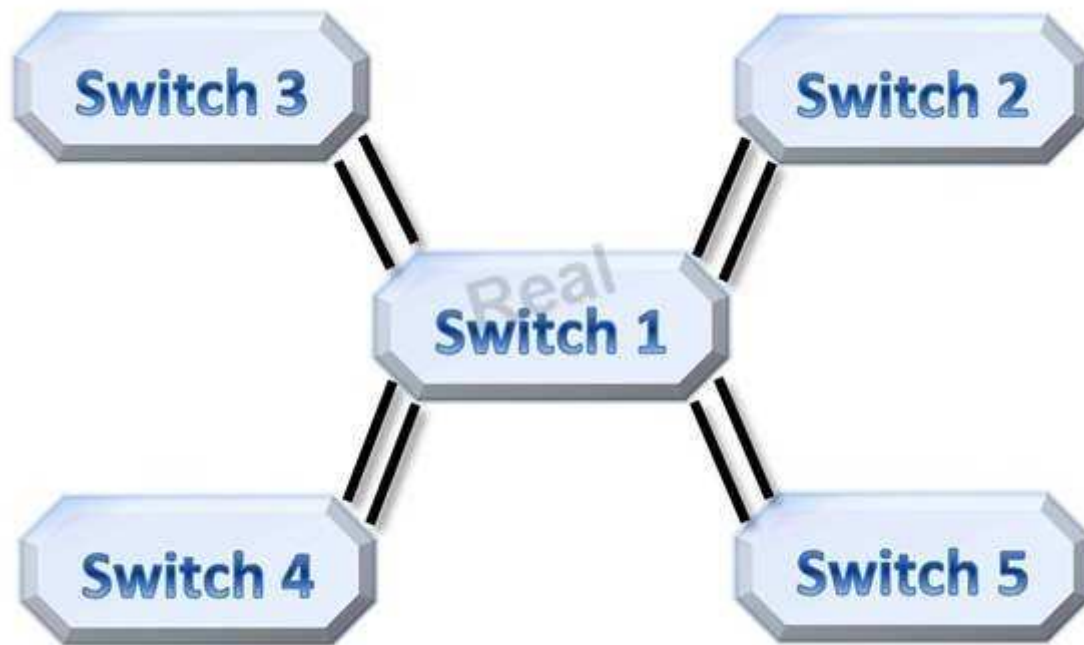
Explanation:

**QUESTION 267**

-- Exhibit

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-- Exhibit --

Click on the exhibit button. Which of the following is the topology shown in the image?

- A. Core-Edge
- B. Point-to-Point
- C. Full mesh
- D. Ring

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 268**

Which of the following is the process of creating logical connections between WWNs in a fabric?

- A. Masking
- B. Sharing
- C. Zoning
- D. Mounting

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

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**QUESTION 269**

Which of the following technologies should an administrator use to share a filesystem between servers in two distant cities?

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 270**

Which of the following methodologies should an administrator use to backup a zero-downtime, high-performance application?

- A. Cold backup

- B. DAS
- C. Serverless
- D. Tape-to-disk

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 271**

Host-based volume management can be an effective tool for which of the following?

- A. Data migration between tape libraries
- B. Data migration between storage arrays
- C. Oversubscription
- D. Server virtualization

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

answer is modified.

**QUESTION 272**

For which of the following technologies is it extremely important to implement thresholds, monitoring, and trending?

- A. SAN virtualization
- B. QOS
- C. iSCSI
- D. Thin provisioning

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 273**

Which of the following are Ethernet based protocols? (Select TWO).

- A. iSCSI
- B. SAS
- C. FCoE
- D. FC
- E. SATA

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 274**

Which of the following combinations are valid?

- A. A SAS Drive can connect to a SATA Backplane
- B. A SATA Drive can connect to a SAS Controller
- C. A SAS Drive can connect to a SATA Controller
- D. A SATA drive can connect to a FC expander

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 275**

Which of the following describes the method of placing lesser used data on less costly storage while reserving more expensive storage for more frequently used or valuable data?

- A. Single Instance Storage
- B. Content Addressable Storage

- C. Storage Tiers and HSM
- D. Object Oriented Storage

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 276**

Which of the following describes how the process of archiving differs from backup and recovery?

- A. The archive process copies data to disk and the backup process copies data to tape.
- B. The archive process adds redundancy to the dataset.
- C. The archive process moves the data from the primary to a secondary media.
- D. The archive process has no equivalent recovery process to restore data.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 277**

Which of the following is an advantage of using single-mode fiber?

- A. Longer distance
- B. Greater turn radius
- C. Sturdier cable plant
- D. Smaller cable

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 278**

If network card link light is on and there is no data flow, which of the following might be the problem?

- A. Incorrect configuration on NIC
- B. Not patched correctly
- C. Device not turned on
- D. Wrong cable

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 279**

The ports for a server and storage system are registered with the fabric's name server yet cannot communicate with each other. Which of the following is the MOST likely cause of the issue?

- A. Failed storage system port
- B. Jumbo frames are not supported
- C. Zoning misconfiguration
- D. Incorrect VLAN

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 280**

A storage administrator is allocating storage for a new database application. Based on disk provisioning best practices, which of the following is the MINIMUM number of RAID array volumes from a SAN-attached storage system that is needed?

- A. 0
- B. 1
- C. 2



D. 3

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 105

CompTIA SG0-001 Exam

**QUESTION 281**

When implementing a gigabit Ethernet network, which of the following is the MINIMUM category of cable required?

A. CAT3

B. CAT5

C. CAT5e

D. CAT6

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 282**

Which of the following is a danger to computer equipment in an environment that has low humidity?

A. Water condensation

B. Component overheating

C. Static electricity buildup

D. Performance degradation

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 283**

For which of the following would SATA disks be MOST appropriate?

- A. Email operations
- B. Archival data
- C. Database operations
- D. Virtualization

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 284**

Which of the following is the BEST option to ensure that throughput is maximized on a SAN?

- A. ISLs should be trunked.
- B. Hosts attached to the SAN should be throttled.
- C. The number of ISL should be decreased.
- D. The number of switches on the SAN should be decreased.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 285**

Which of the following is true for load balancing?

- A. Load balancing cannot be provided without an effective RAID configuration.
- B. A dual-port HBA will always provide load balancing.
- C. A dual-port HBA to an array capable of active/active sessions.

D. I/O sent from a host through two ports to an array will provide load balancing.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 286**

Which of the following requirements is necessary to define a disaster recovery plan?

- A. Sync/Async
- B. RPO/RTO
- C. HA/BC
- D. LAN/WAN

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 287**

Which of the following media is the BEST option to provide SAN access between an HBA and a storage device, on an 8Gb/s FC network separated by less than 60 meters (196.85 feet)?

- A. Multimode 62.5 micron
- B. SFP+ TwinAX
- C. Multimode 50 micron
- D. Single-mode 9 micron

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 288**

At 1Gb/s, multimode fiber cables are capable of carrying Fibre Channel data a MAXIMUM distance of which of the following?

- A. 200 meters (656 feet)
- B. 500 meters (1640 feet)
- C. 1000 meters (3281 feet)
- D. 10 kilometers (6 miles)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 289**

Which of the following is an administrator defined character string used to indicate a more human readable ID to devices in the network?

- A. World Wide Port Name
- B. Name Service
- C. Alias
- D. World Wide Node Name

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 108

CompTIA SG0-001 Exam

**QUESTION 290**

On a Fibre Channel switch, port error counters for one storage port show a high number of CRC errors, invalid transmit words, and bad end of frames. Which of the following are the MOST likely causes? (Select TWO).

- A. Failing Switch ASIC

- B. Failing HBA/SFP on storage
- C. Loose or damaged cable
- D. Server is rebooting
- E. HBA driver

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 291**

CLI can be used via which Ethernet protocol options? (Select TWO).

- A. SNMP
- B. Telnet
- C. UDP
- D. SSH
- E. HTTP

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 292**

Which of the following characterizes block level storage?

- A. Includes ownership and access permissions
- B. Main component of the operating system
- C. Allows the application to use abstract data objects of variable size
- D. Best for high performance database applications

**Correct Answer:** D

**Section:** (none)

**Explanation****Explanation/Reference:**

Real 109

CompTIA SG0-001 Exam

Explanation:

**QUESTION 293**

When considering performance values, to which of the following does the term 8Gb FC switch refer?

- A. Switch throughput
- B. Port group
- C. Port speed
- D. Port channel bandwidth

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:**

Explanation:

**QUESTION 294**

In a core-edge architecture, which of the following FC switches would be used for the core?

- A. Gateway
- B. Bridge
- C. Router
- D. Director

**Correct Answer: D**

**Section: (none)**

**Explanation****Explanation/Reference:**

Explanation:

**QUESTION 295**

Which of the following zoning methods is MOST flexible?

- A. Port zoning
- B. WWPN zoning
- C. ISL
- D. Jumbo frames

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 110

CompTIA SG0-001 Exam

**QUESTION 296**

Network adapter teaming provides which of the following benefits? (Select TWO).

- A. Longer cable distance
- B. Decreases latency
- C. Lower CPU utilization
- D. Redundancy
- E. Higher throughput

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 297**

Which of the following storage techniques places frequently accessed data on faster media while placing seldom accessed data on slower media?

- A. Defragmenting
- B. De-duplication
- C. Thin provisioning

D. Tiering

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 298**

Which of the following features is enabled when using VSANs?

- A. The ability to allow for different firmware revisions on the same physical switch
- B. The ability to prevent a SAN switch from becoming a single point of failure
- C. The ability to create multiple logical switches within the same physical switch
- D. The ability to route through all ports on the switch

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 111

CompTIA SG0-001 Exam

**QUESTION 299**

Which of the following features allows for multiple servers to be backed up to a single tape drive?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Explanation:

**QUESTION 300**

When putting new equipment on a raised floor, which of the following needs to be considered from a safety perspective?

- A. Space requirements
- B. Weight requirements
- C. Cooling requirements
- D. Power requirements

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 301**

Which of the following enforces hard zoning within a fabric?

- A. Name Server
- B. Initiator
- C. Target
- D. ASIC

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Real 112

CompTIA SG0-001 Exam

**QUESTION 302**

For which of the following is NIC Teaming used?

- A. Enabling use of TOE
- B. Fault tolerance
- C. Enabling use of Jumbo Frames
- D. Connecting to multiple VLANs

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 303**

Which of the following is MAXIMUM distance for 50 micron multimode fiber at 4Gb?

- A. 10 meters (32.8 feet)
- B. 175 meters (574 feet)
- C. 800 meters (2624.7 feet)
- D. 2 kilometers (1.24 miles)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 304**

Which of the following is the MAIN goal of ILM?

- A. Provide users with unlimited disk space
- B. Move all the data to the cheapest tier
- C. Move data according to the set policies
- D. Move least used data to the fastest tier

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

answer is updated.

**QUESTION 305**

When the latency between the sites is high, which of the following replication types should be used?

- A. Symmetric
- B. Synchronous
- C. Asymmetric
- D. Asynchronous

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 306**

Which of the following BEST describes the pros and cons of using very large SATA drives in a RAID 6 versus a RAID 5 configuration?

- A. PRO: better I/O performance  
CON: less protection against multiple disk failures
- B. PRO: more usable disk space  
CON: reduced I/O performance
- C. PRO: more usable disk space  
CON: longer rebuild times
- D. PRO: protection against multiple disk failures  
CON: less usable disk space

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 307**

Which of the following identifiers occur in a storage fabric once and is always unique?

- A. Node Symbolic Link Name
  - B. World Wide Port Name
  - C. World Wide Node Name
  - D. Fibre Channel MAC Address
- Real 114  
CompTIA SG0-001 Exam

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 308**

Which of the following terms describes the scenario in a storage system where one or more LUNs have a process run against them to find identical content to reduce the consumed storage?

- A. Post-process deduplication
- B. Thin space reclaim
- C. In-line deduplication
- D. Zero block reclaim

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 309**

Which of the following is true of both deduplication and compression?

- A. Data is more resilient to bad blocks and redundancy
- B. Data access is faster for both read and write
- C. Compression and deduplication rates are uniform across data sets
- D. Less physical space is required to store the data

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 310**

Which of the following terms describes the situation where a single HBA can represent many World Wide Ports Names on a fabric to give a unique World Wide Port name to a number of hosted virtual machines?

- A. VSAN
  - B. MPIO
  - C. MPLS
  - D. NPIV
- Real 115  
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**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 311**

A storage administrator has provisioned a LUN from a storage system to a new host and created the appropriate zones. The server administrator now states that the host cannot see the new volume. Which of the following is the FIRST item to suggest the server administrator check?

- A. Determine if the host can ping the storage system.
- B. Check the multipathing level.
- C. Submit a change ticket for another volume.
- D. Verify if LUN masking is enabled on the server.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 312**

A FC SAN environment has a single director for each fabric. The SAN administrator wants to separate tape and disk traffic in a very secure manner. Which of the following virtualization methods should be considered?

- A. VLANs
- B. VSANs
- C. NPIV
- D. FC Routing

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 313**

When comparing 7,200 RPM disk drives to 15,000 RPM disk drives, the 15,000 RPM disk drives will have:

- A. slower rotational speed.
- B. lower IOPs capability.  
Real 116  
CompTIA SG0-001 Exam
- C. lower latency.
- D. slower throughput.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 314**

A storage administrator is troubleshooting a higher than normal failure rate of LTO tapes. The administrator has noticed that most of the failed tapes are associated with hosts backing up large numbers of small files. The root cause for the higher tape failures is MOST likely due to which of the following?

- A. Compression
- B. Hardware encryption
- C. Shoe-shining
- D. Multi-streaming

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 315**

Which of the following backup methods would take the LEAST amount of time to complete?

- A. A full and subsequent incremental backup
- B. All differential backups
- C. A full and subsequent differential backup
- D. A full and alternating differential and incremental backup

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 316**

Which of the following describes a differential backup?

- A. Backs up all data in the backup set  
Real 117  
CompTIA SG0-001 Exam
- B. Backs up all data in the backup set since the last incremental backup
- C. Backs up all data in the backup set since the last differential backup
- D. Backs up all data in the backup set since the last full backup

**Correct Answer:** D

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 317**

A disk cylinder refers to which of the following?

- A. A vertically aligned track on all disk surfaces within a hard drive.
- B. A vertically aligned sector on all disk surfaces within a hard drive.
- C. The shaft that runs through the center of each disk surface within a hard drive.
- D. The area within the hard drive that encloses all disk platters within the hard drive.

**Correct Answer:** A

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 318**

The database group at a highly successful Internet retailer has requested 1TB of space for organic growth in their online order database. The storage array is configured in a RAID 5 configuration. Which of the following is the BEST type of hard drive to use for the RAID array?

- A. 50GB IDE drives
- B. 300GB FC drives
- C. 1TB SATA drives
- D. 3TB SCSI drives

**Correct Answer:** B

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 319**

Which of the following would be the appropriate technology an administrator would use to provision the desired amount of space to a server, while only the utilized disk space is consumed on the storage array?



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- A. Fat provisioning
- B. Volume groups
- C. Virtual provisioning
- D. Concatenated groups

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 320**

Which of the following can provide the capability of mirroring a LUN between two storage arrays?

- A. SAN virtualization
- B. De-duplication
- C. Thin provisioning
- D. Virtual SAN

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 321**

When setting up queue depths in the below environment parameters:

- A storage device's port queue depth setting is set to 160
- They would like to assign 4 host HBAs to each port

Which of the following depth values would be the BEST to assign to each HBA?

- A. 40
- B. 80
- C. 160+
- D. Default value

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 119

CompTIA SG0-001 Exam

**QUESTION 322**

Which of the following is the BEST time to schedule a backup to run on the SAN?

- A. When resources are available and services are idle
- B. At midnight as people are not at work
- C. At noon as most people are not at their desks
- D. When data is being read but not written

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 323**

Which of the following drives provides the FASTEST throughput?

- A. FC
- B. SAS
- C. SSD
- D. SATA

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 324**

Which of the following backup restore methods takes the LONGEST?

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

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 325**

Real 120

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Which of the following devices are considered WORM devices? (Select TWO).

- A. SAS
- B. CD-ROM
- C. SSD
- D. DVD-ROM
- E. SCSI

**Correct Answer: BD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 326**

Which of the following is a common practice with regards to hot spares on a storage array utilizing RAID?

- A. Hot spares are not recommended
- B. Create one hot spare for every thirty drives in the storage array
- C. Create one hot spare for the entire storage array
- D. Create one hot spare for every drive size and type

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 327**

A dual controller head storage array is zoned to two different fabrics. How should the administrator cable up the storage array to ensure redundancy and resiliency?

- A. ISL the FC switches together
- B. Cable both controller heads to one switch
- C. Have at least one path from each controller head going to each fabric
- D. Cable one controller port to one fabric and the other controller port to a second fabric

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 328**

Real 121

CompTIA SG0-001 Exam

Which of the following topologies is capable of handling up to 127 devices?

- A. Mesh
- B. Arbitrated loop
- C. Switched
- D. Point-to-point

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 329**

Which of the following can be used to optimize the bandwidth between connected switches?

- A. Port groups
- B. Trunking
- C. ISL
- D. Routing

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 330**

Which of the following is the BEST option to make a complete point-in-time copy?

- A. Snapshot
- B. Synchronous replication
- C. Clone
- D. Mirror

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 331**

An administrator is responsible for setting up monitoring of multi-vendor SANs. Which protocol will allow for secure, threshold-based trap alerting?

Real 122  
CompTIA SG0-001 Exam

- A. SMS
- B. SNMPv3
- C. SMI-S
- D. SMTP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 332**

Which of the following could be a result of a failed drive in a properly configured storage array? (Select TWO).

- A. SMS to administrator
- B. Unexpected data loss
- C. Controller reboot
- D. Loss of power supply
- E. Email to administrator

**Correct Answer:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 333**

After working for the past six months, a server no longer can see its storage. An administrator is aware that a new storage array was installed last night and was made available to this server.

Which of the following should be checked FIRST?

- A. New storage array firmware

- B. Server switch port
- C. Zoning configuration
- D. Storage switch port

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 334**

Which of the following replication techniques will protect data from a site failure?

Real 123

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- A. Local clone
- B. Remote clone
- C. Data in-flight encryption
- D. Local snapshot

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 335**

Which of the following is an advantage of moving from a small RAID 5 set to a large RAID 5 set?

- A. Increased security
- B. Increased reliability
- C. Increased rebuild time
- D. Increased performance

**Correct Answer:** D

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 336**

The process of replacing a file with a pointer when an identical file is found in more than one location on the host, is which of the following?

- A. Single instance storage
- B. Post-process deduplication
- C. Inline deduplication
- D. Appliance based deduplication

**Correct Answer:** A

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 337**

Which of the following disk drives can be installed into SAS disk enclosures? (Select TWO).

- A. PATA  
Real 124  
CompTIA SG0-001 Exam
- B. SAS
- C. SATA
- D. FC
- E. SCSI

**Correct Answer:** BC

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 338**



Which of the following is LVM used for when mirroring or striping?

- A. Mount point
- B. Disk group
- C. Logical volume
- D. File system

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 339**

A database is designed to auto-extend its table spaces as data is ingested. Which of following technologies would help optimize storage utilization ratios?

- A. Full disk compression
- B. Thin provisioning
- C. Data and log isolation
- D. Full disk encryption

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 340**

A large number of intermittent SCSI errors are suddenly appearing in a host's log, but the storage array has been verified as fully operational. The link lights on the SAN switch connections have been confirmed. Which of the following should a storage administrator check?

Real 125

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- A. Switch zone errors
- B. Port errors counters
- C. FC cable

D. HBA topology configuration

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 341**

Which of the following can be a benefit of Content Addressable Storage?

- A. Virtualize multiple storage arrays
- B. Ease of data sharing
- C. Single instance storage
- D. Highest levels of performance

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 342**

Which of the following technologies can help optimize capacity utilization when storing many versions of a large file with few changes in each revision of the file?

- A. Block-level deduplication
- B. File-level deduplication
- C. Single instance storage
- D. Asynchronous replication

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 343**

In case of a power outage, to protect the write cache the controller uses an embedded battery system to keep the cache memory viable. Which of the following terms describes this behavior?

Real 126

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- A. Mirrored write cache
- B. Standby power supply
- C. Cache de-staging battery
- D. Battery backed cache

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 344**

An administrator is installing a new cable plant in a datacenter. The administrator plans on using 50 micron multi-mode cabling that is in stock. Which of the following needs to be considered when using this cable?

- A. Cable color
- B. Connectors are MIC
- C. Connectors must be LC
- D. Distance

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 345**

A SAN administrator has been advised that access to manage storage and switching devices has been changed to a different VLAN for security reasons. The administrator cannot log into one storage system from the management workstation. Which of the following is the MOST likely cause of this issue?

- A. Incorrect firewall settings
- B. Jumbo frames not supported
- C. Incorrect NIC configuration
- D. Zoning misconfiguration

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 346**

Real 127

CompTIA SG0-001 Exam

FCoE achieves higher performance with the use of which of the following?

- A. Data Center Bridging Exchange (DCBX)
- B. Priority tagging
- C. VLAN tagging
- D. Baby-jumbo frames

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 347**

Which of the following must a technician create to establish a session between a NAS device and a server?

- A. File system
- B. Zoneset
- C. Fabric
- D. Alias

**Correct Answer:** A

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 348**

Given a limited amount of storage, a technician wants to maximize capacity for multiple hosts and utilization efficiency. Which of the following would BEST achieve this?

- A. LUN load balancing
- B. Encryption
- C. Compression
- D. Thin provisioning

**Correct Answer: D**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 349**

Real 128

CompTIA SG0-001 Exam

Which of the following is an advantage of an iSCSI SAN over a FC SAN?

- A. Higher performance
- B. Higher scalability
- C. Lower latency
- D. Lower implementation costs

**Correct Answer: D**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 350**

Which of the following is the MAXIMUM storage capacity of a dual-layer Blu-Ray disk?

- A. 25 GB
- B. 50 GB
- C. 100 GB
- D. 200 GB

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 351**

An administrator has built two storage arrays for a BCDR solution. Each array is in a different datacenter and each datacenter has its own SAN. The SANs will be directly connected to one another via long-wave SFPs. Which of the following cable types should the administrator use to facilitate connectivity?

- A. CAT6
- B. CAT5e
- C. Single-mode
- D. Multimode

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 352**

Real 129

CompTIA SG0-001 Exam

An administrator has just installed a brand new HBA into a host and needs to connect that host to the SAN. Which of the following connector types should be used?

- A. ST
- B. RJ-45
- C. LC
- D. SFP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 353**

An administrator is troubleshooting a server that is intermittently losing access to its disk down a single path. The connected switch port has a lot of errors. The host HBA has appropriate firmware and drivers for its configuration. Which of the following is the MOST likely cause for the recurring issue?

- A. Improper zoning configuration
- B. Storage controller reboots
- C. Improperly seated LC connector
- D. Incompatible switch firmware

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 354**

In an FCIP environment where data replication is occurring between two FC SANs communication errors are becoming persistent, and occasionally the link drops. Which of the following would a technician use to monitor and determine when link drops occur?

- A. ping
- B. tracert
- C. nslookup
- D. fcping

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 355**

Which of the following distances is supported for 50 micron multimode cable for 4 Gb/s Fibre Channel?

- A. 150 meters (492 feet)
- B. 350 meters (1148 feet)
- C. 600 meters (1968.5 feet)
- D. 2000 meters (6561 feet)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 356**

A server administrator reports a lot of SCSI transport errors and retries on one server. Which of the following methods, on the Fibre Channel switch, would display these errors?

- A. Review the Zoning for the server.
- B. Run nscamshow show for the server port.
- C. Review the Port Error counters.
- D. Send fcping the server port.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 357**

A company has two data centers, 25 kilometers (15.5 miles) apart. Data is replicated from the primary to the secondary site using a method that commits data to storage at both sites before the write is acknowledged to the host. This is BEST described as which of the following?

- A. Asynchronous continuous replication
- B. Synchronous remote replication
- C. Redundant offsite backup
- D. Asynchronous Local replication



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Real 131

CompTIA SG0-001 Exam

Explanation:

**QUESTION 358**

When a single Fibre Channel port can be configured to represent multiple virtual devices on the same physical port, it is known as which of the following?

- A. NPIV
- B. N-port ID
- C. Multiplexing
- D. IQN

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 359**

VSAN/Virtual Fabric can BEST be defined as which of the following?

- A. Combining multiple physical switches into a single logical fabric
- B. Configuring multiple ports on a FC switch to a combined ISL path
- C. Assigning multiple logical devices to a single FC F-port
- D. Configuring multiple logical fabrics within a single physical fabric

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 360**

In an HSM solution, files are archived to high capacity, high latency disk. To minimize overhead and assure the fastest recall time possible, which of the following should be considered when setting migration policy? (Select TWO).

- A. Larger files should have a higher priority for migration than smaller ones
  - B. Files with the oldest creation date should be migrated first
  - C. Files with the oldest last reference date should have higher priority for migration
  - D. If data criteria are identical, smaller files should be migrated first
  - E. The least referenced files should have higher priority for migration
- Real 132  
CompTIA SG0-001 Exam

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 361**

Which of the following is necessary to ensure power redundancy in a FC SAN?

- A. Multiple HBAs
- B. Adequate division of circuits
- C. Replication
- D. Multiple FC switches

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 362**

Which of the following FC protocol layers is associated with the physical attributes of an interface and media?

- A. FC-0

- B. FC-1
- C. FC-2
- D. FC-4

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

### **QUESTION 363**

Which of the following storage configurations is the MOST secure with regards to unauthorized access to the storage?

- A. DAS storage array connected to a single stand alone server
  - B. NAS storage array attached to an isolated network
  - C. Hybrid storage array running multi-protocols
  - D. SAN with different levels of user access enforced by individual passwords
- Real 133  
CompTIA SG0-001 Exam

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

### **QUESTION 364**

Which of the following protocols is used by a NAS storage array to present file systems?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 365**

After properly powering and cabling a storage system, some of the drive enclosures are still not available. Which of the following should be checked FIRST?

- A. Faulty drives
- B. Enclosure controllers
- C. Enclosure addressing
- D. Bad cables

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 366**

To prevent injury during rack loading which of the following should be implemented?

- A. Non-powered tools
- B. Proper lifting techniques
- C. Antistatic device deployment
- D. Proper device cabling

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Real 134

CompTIA SG0-001 Exam

Explanation:

**QUESTION 367**

A server administrator loses access to several LUNs. When the storage administrator views the array and notices several drives have failed. Reviewing the array logs shows that the drives faulted over several weeks. Which of the following should have been implemented to prevent the current situation? (Select TWO).

- A. Trending
- B. Call home
- C. Forecasting
- D. Setting thresholds
- E. Array alerts

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 368**

A previously fully redundant drive enclosure is now showing only a single path on an array. The I/O modules and enclosure connecting cables have all been replaced with known good parts.

Which of the following components has failed?

- A. Enclosure controller
- B. Enclosure address
- C. Faulty drive
- D. Power supply

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 369**

When attaching a new host to the fabric, which of the following is created on the switch to easily manage the host?

- A. ISL
  - Real 135
  - CompTIA SG0-001 Exam
- B. Alias
- C. DNS record

D. Trunk

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 370**

When zoning a new host to a storage array, which of the following is the BEST unique identifier to be included in the zone?

- A. N-port ID of the switch port
- B. Worldwide node name of the initiator
- C. Worldwide port name of the initiator
- D. Worldwide port name of the switch port

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 371**

Which of the following is responsible for enforcing soft zoning within a fabric?

- A. Target
- B. Name server
- C. Initiator
- D. Alias

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 372**

When configuring a NAS device for access from a Linux client, which of the following is the BEST protocol to use?

- A. iFCP  
Real 136  
CompTIA SG0-001 Exam
- B. CIFS
- C. NFS
- D. iSCSI

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 373**

An administrator is setting up a new host in a redundant fabric environment with a storage array capable of sustaining active/active connections. Which of the following is the minimal number of single-port HBAs and which feature should the administrator use?

- A. 2 using MPIO
- B. 4 using LVM
- C. 4 using VTL
- D. 6 using LVM

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 374**

Which of the following will allow secure remote login on a managed device?

- A. Telnet
- B. CLI
- C. SSH

D. HTTP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 375**

Which of the following de-duplication techniques will require less processing power on the host but more initial disk space on the storage array?

Real 137

CompTIA SG0-001 Exam

- A. Single instance storage
- B. Inline
- C. Agent based
- D. Post-process

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 376**

An administrator is troubleshooting an outage in which a core switch in one of the redundant fabrics has failed. The servers connected to one of the storage arrays lost access to their assigned LUNS, while servers with LUNs assigned from other storage arrays continue to have access.

Which of the following caused the outage?

- A. The array controllers were not configured for failover.
- B. The array has only one controller.
- C. All controllers of the array are connected to the failed fabric.
- D. Servers' redundant HBAs have incompatible firmware.

**Correct Answer:** C

**Section:** (none)



### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 377**

Given a scenario in which a higher than average number of disk failures are observed in one particular corner of a datacenter floor, which of the following is the MOST likely cause?

- A. Inadequate division of power circuits
- B. Inadequate number of cables
- C. Inadequate cooling
- D. Inadequate floor support

**Correct Answer: C**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 378**

Two storage arrays in distant datacenters are required to communicate via the same subnet,

Real 138

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which of the following technologies would facilitate this?

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

**Correct Answer: C**

**Section: (none)**

### **Explanation**

#### **Explanation/Reference:**

Explanation:

**QUESTION 379**

Which of the following technologies has the potential to result in significantly higher utilization of a SAN switch port?

- A. NPIV
- B. FCoE
- C. VSAN
- D. Multipathing

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 380**

Which of the following is an indication of good storage array read performance?

- A. 90-100% CPU utilization
- B. 90-100% adapter port utilization
- C. 90-100% disk utilization
- D. 90-100% read cache hit

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 381**

When defining zones on FCoE and FC fabrics, which of the following concepts are optional?

- A. Active configuration
- B. Zoneset
- C. Alias
- D. Zone

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 382**

When zoning an FC or FCoE device, which of the following identifiers would BEST be used to define the zone members?

- A. World Wide Node Names
- B. SCSI GUID
- C. Initiator-Target UUID
- D. World Wide Port Names

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 383**

Which of the following is a valid reason to use dual single-port HBAs instead of a single dual-port HBA?

- A. To survive a cable fault with multipathing drivers installed
- B. To survive a storage array failure
- C. To run different versions of drivers on each HBA
- D. To survive a complete HBA failure

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Real 140

CompTIA SG0-001 Exam

**QUESTION 384**

Which of the following would be implemented in a software management tool to define boundaries that generate notifications?

- A. Audit logs
- B. Baselines
- C. Thresholds
- D. Events

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 385**

Which of the following describes the type of encryption supported by LTO tape drives to protect data in transit between a datacenter and an off-site storage facility?

- A. IEEE 802.5z based encryption
- B. IPSec based encryption
- C. Data-at-Rest encryption
- D. Data-In-Flight encryption

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 386**

Assuming that unique keys exist for each tape backup job, which of the following is the BEST advantage of using Tape encryption in regards to expiring tapes?

- A. Tapes that are expired only need to be reformatted to make the data inaccessible.
- B. Tapes that are expired only need the keys destroyed to make the data inaccessible.
- C. Tapes that are expired only need to be overwritten without reformatting to make the data inaccessible.
- D. Tapes that are expired must be degaussed to make the data inaccessible.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 141

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**QUESTION 387**

Which of the following is a term used to describe the access type used to populate data on a tape drive?

- A. Block level
- B. WORM
- C. Tape object level
- D. File level

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 388**

Another server needs to be added to an FC SAN and the server must provide load balancing. Which of the following must be installed in the server?

- A. HBA (1 port)
- B. HBA (2 port)
- C. NIC (2 port)
- D. NIC (4 port)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 389**

A technician is adding a server to a demo room, will be using the current cable plant from the datacenter, and has added a cable to reach the server. The technician keeps losing server connection, but the link remains up. Which of the following could be the problem?

- A. Incorrect VLAN
- B. Incorrect configuration on the demo
- C. The cable distance is too long
- D. Incorrect network is being used

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Real 142

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Explanation:

**QUESTION 390**

A director with a highly available configuration will have which of the following power supplies installed at a MINIMUM?

- A.  $N + 1$
- B.  $N$
- C.  $2 * N$
- D.  $N + 2$

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 391**

The specification of disk drives used in a storage system lists an average of 200 read IOPS per drive. Which of the following should be expected of an 8 drive RAID 5 array?

- A. 1000
- B. 1200
- C. 1400
- D. 1600

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 392**

Data needs to be mirrored from the primary datacenter to the DR site 800km (497mi) away. Which of the following replication methods should the administrator consider FIRST?

- A. Shipped tapes
- B. Asynchronous
- C. Snapshots
- D. Synchronous

Real 143

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**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 393**

A storage administrator has created a ruleset to determine the appropriate storage tier when storing new data in a tiered storage solution. The administrator notes later that the default tier is receiving all of the new data. Which of the following should the administrator perform FIRST?

- A. Add a new storage tier to the solution
- B. Check the order of the rules
- C. Enlarge the capacity of the default tier
- D. Eliminate the default rule

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 394**

A new FCoE solution is experiencing random connectivity issues between many servers and their storage. Which of the following should the SAN administrator check FIRST?

- A. Implement a router to bridge between FCoE and FC devices
- B. Replace the forwarder with a director and FCoE line module
- C. Inspect the cables and replace as necessary
- D. Configure the forwarder to NPIV mode of operations

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 395**

A datacenter has 100 TB of Tier 1 storage, 600 TB of Tier 2 storage and a large tape library. HSM is moving data from Tier 1 to Tier 2 at the rate of 5 TB per month, while 10% of Tier 2 data is transferred to tape per year. The storage administrator is asked to forecast the amount of new Tier 2 storage that will be needed over the next two years. Which of the following does the administrator report?

Real 144

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- A. 0 TB
- B. 5 TB
- C. 60 TB
- D. 120 TB

**Correct Answer: A**

**Section: (none)**

**Explanation**



**Explanation/Reference:**

Explanation:

**QUESTION 396**

The switches in one fabric, in a redundant FC environment, were recently moved. A subset of hosts lost all connectivity to their SAN-attached disk resources during the move. Which of the following should the administrator have checked BEFORE starting the move?

- A. Quiesce the mission-critical applications.
- B. Ensure the MPIO version is up-to-date.
- C. Verify all host paths to storage are active.
- D. Enable all switches in the redundant fabric.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 397**

Which of the following is the BEST way to maintain the operational environment in a datacenter?

- A. Seal the room so the outside environment has less impact on the datacenter environment.
- B. Run the systems in "low-power" mode to put less strain on the HVAC unit(s).
- C. Open the doors to the datacenter and run large fans to pull hot air away from the room.
- D. Provide one-for-one backup (n + n) HVAC units so each unit operates more efficiently.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 398**

Which of the following commands is BEST used to determine network performance on a system running UNIX/Linux?

Real 145

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- A. netstat
- B. route
- C. arp
- D. ifconfig

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 399**

A DBA has notified the storage administrator that a well-established, long-running database server is experiencing delays writing to /tempdb, where log files are stored. Which of the following should the administrator look at to help determine root cause? (Select TWO).

- A. Read queue length
- B. Replication status
- C. Write queue length
- D. netstat
- E. perfmon

**Correct Answer:** CE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 400**

An administrator has cabled a server up to an FC SAN in a fully redundant manner. When cabling and logical assignment tasks are complete, however, the host only sees

one path to its LUN. Which of the following is the MOST likely cause for the issue?

- A. A zone for the second path is missing
- B. There are too many storage controllers in-band
- C. The LUN is not being mirrored

D. The host does not have a dual-port HBA

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 401**

The application group wants to move old data from their primary file system to the new volume, while keeping it available for reporting. The storage team is MOST likely to create the new volume on which of the following disk types?

- A. FC
- B. SATA
- C. SSD
- D. SAS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 402**

A storage administrator has reclaimed several LUNs from an old server that was decommissioned. All LUNs were reclaimed from the same 8+1 RAID 5 group. Which of the following can the administrator do to improve performance for the remaining LUNs?

- A. Reinitialize the disk
- B. Defragment the group
- C. Move the group to another controller
- D. Recreate the group

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 403**

A SAN administrator created a new zone for a server to access new LUNs on an existing storage array. The server administrator rescans the server bus and reports that they cannot find the storage that was allocated for this new server. The SAN administrator verified that the server ports are logged into the fabrics. Which of the following BEST explains the issue?



<http://www.gratisexam.com/>

- A. The HBAs used in the server are from an unqualified vendor.
- B. The new zoning configurations were not committed to the fabrics.
- C. The server was not rebooted after the configuration was changed.
- D. The cables for the storage are not connected to the correct switch.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Real 147

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Explanation:

**QUESTION 404**

The administrator sets thresholds for a specific counter. When the threshold is reached, which of the following should happen FIRST?

- A. The port will shut down.
- B. An event will generate in the log.
- C. An alarm will sound in the datacenter.
- D. The switch will be configured offline.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 405**

Setting thresholds for Tx/Rx on E-ports so that the administrator can log alerts for this value will be a good way to:

- A. predict when the servers have reached capacity.
- B. predict when more ISLs are needed.
- C. know when the storage array is full.
- D. know when it is time to replace fiber cables.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 406**

The feature in FC switches that allows configuration of multiple logical switches to exist on one chassis is called:

- A. VM.
  - B. VLAN.
  - C. VSAN.
  - D. virtual switch.
- Real 148  
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**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 407**

SNMP is an IP protocol used for:

- A. creating zoning and changing system configuration.
- B. sending email notifications directly from the storage array.
- C. changing the default management server.
- D. monitoring and managing equipment.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 408**

When connecting two FC switches using FCIP across an IP circuit, which of the following ensures that the FC frames are not segmented?

- A. Link aggregation
- B. TOE
- C. Jumbo frames
- D. Dedicated links

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 409**

In a performance tiered storage environment, which of the following types of data should reside on the top tier?

- A. Data requiring high I/O
  - B. Encrypted data
  - C. Mission critical data
  - D. Frequently archived data
- Real 149  
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**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 410**

In an HSM archive application, which of the following is the BEST candidate for migration?

- A. A 1 MB file that is 360 days old.
- B. A file stored on a server that will expire in 10 days.
- C. A 250 MB file that has not been referenced for 90 days.
- D. A 1 MB file that is 120 days old.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 411**

A SAN administrator is adding a new server with dual HBAs to a fully redundant SAN. After committing the zoning changes, several servers lost half their connectivity to the storage. Which of the following is the cause of the issue?

- A. The new zone was incorrectly configured on one of the fabrics.
- B. The new zone was incorrectly configured on both fabrics.
- C. The administrator has zoned several initiators in the same zone.
- D. The administrator activated the wrong zone set on one of the fabrics.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 412**

Which of the following is the purpose of ISL?

- A. To increase the performance of the HBAs
  - B. To expand the iSCSI fabric
  - C. To expand the Ethernet network
  - D. To expand the FC fabric
- Real 150  
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**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 413**

Which of the following is required for the proper environment of a storage array?

- A. Halon
- B. HVAC
- C. Solar panels
- D. Biometric authentication

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 414**

An administrator installed a new NIC into an existing older server. The NIC is not properly recognized by the OS. Which of the following is MOST likely the problem?

- A. The server does not have enough power.
- B. The driver needs to be installed.
- C. The server has a virus.
- D. The operating system needs to be reinstalled.



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 415**

Which of the following is a component of LVM?

- A. Volume group
- B. An initiator
- C. RAID group
- D. Zone set

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

answer is valid.

**QUESTION 416**

Which of the following is the purpose of VLAN technology?

- A. It allows FCoE to act like an iSCSI SAN.
- B. It allows for segregation of traffic within a physical network.
- C. It allows iSCSI SANs to function as FCP SANs.
- D. It allows a physical network to behave as if it is a VSAN.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 417**

Which of the following is MOST likely required to have true site redundancy?

- A. DR site in another region on a separate power grid
- B. DR site utilizing only HA storage arrays
- C. DR site in the same city
- D. DR site utilizing storage arrays with SSD drives

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 418**

Which of the following RAID levels would allow a technician to take advantage of distributed parity and lose any two drives in a RAID group without losing data?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 152

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**QUESTION 419**

Which of the following port combinations is correct for a link between an FC router and a switch?

- A. Router port is EX and the switch port is EX
- B. Router port is EX and the switch port is E
- C. Router port is E and the switch port is EX
- D. Router port is E and the switch port is E

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 420**

In order to decrease the amount of time required to backup hosts, disk drive arrays can be used to simulate tape drives for backup. Which of the following can be used for this purpose?

- A. VTL
- B. DAT
- C. ATL
- D. LTO

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 421**

An administrator would like to lower storage costs by only keeping frequently accessed data on FC disks, less accessed data on low cost SATA disks, and seldom accessed data on optical media.

Which of the following should be deployed?

- A. CAS
- B. DAS
- C. HSM
- D. Archiving

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 422**

When considering an HA FC environment, a Single Point of Failure (SPOF) between the storage and the server is:

- A. acceptable when a loop device is connected to dual ports in the fabric.
- B. not acceptable within either fabric.
- C. acceptable when the same name server is installed on all switches.
- D. not acceptable unless each fabric has a different SPOF.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 423**

Which of the following represents a best practice in an HA FC environment?

- A. Dual fabrics
- B. Dual port HBA installed on a host
- C. Single HBA installed on a host
- D. Director class switch

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 424**

The same LUN can be mapped to multiple servers only if which of the following conditions are satisfied?

- A. Both servers are running the same operating system

- B. File system on the LUN is cluster aware
- C. More bandwidth is required to satisfy customer requirements
- D. Multiple servers require access to the same data

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Real 154

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Explanation:

#### **QUESTION 425**

Which of the following is one advantage of using TOE?

- A. Increases routing complexity
- B. Requires use of jumbo frames
- C. Decreases CPU utilization
- D. Decreases network throughput

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 426**

In order to enable Linux hosts to access a NAS share, which of the following protocols MUST be enabled?

- A. NFS
- B. SSH
- C. Telnet
- D. CHAP

**Correct Answer:** A

**Section:** (none)

### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 427**

Which of the following, when enabled on all devices, will decrease the number of packets sent on the network?

- A. Class of Service
- B. Jumbo Frames
- C. Quality of Service
- D. Link Aggregation

**Correct Answer: B**

**Section: (none)**

#### **Explanation**

#### **Explanation/Reference:**

Real 155

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Explanation:

#### **QUESTION 428**

In order to avoid shoe-shining, which of the following techniques can be used?

- A. De-duplication
- B. Multistreaming
- C. Compression
- D. Multiplexing

**Correct Answer: D**

**Section: (none)**

#### **Explanation**

#### **Explanation/Reference:**

Explanation:

#### **QUESTION 429**

In a fully redundant dual fabric environment, the core switch in one of the fabrics fails. None of the servers can access their LUNs. Which of the following is a

possible cause of this issue?

- A. Storage controllers were only connected to a single fabric.
- B. The fabric is using port zoning.
- C. There are not enough buffer-to-buffer credits.
- D. All of the LUNs were only zoned to a single fabric.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 430**

Which of the following technologies has the FASTEST hard drive interface?

- A. SATA
- B. FC
- C. SAS-2
- D. SCSI-3

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 156

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**QUESTION 431**

Best zoning practice dictates that each zone can only contain a single:

- A. initiator.
- B. alias.
- C. target.
- D. name server.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 432**

While reviewing a new installation the storage administrator notices that a number of FC cables have excess length that is tightly looped. Of which of the following would this be an example? (Select TWO).

- A. Standard installation practices
- B. Cabling per vendor recommendations
- C. Poor cabling installation practices
- D. Increasing performance by reducing distance
- E. Exceeding recommended bend radius

**Correct Answer:** CE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 433**

Which of the following devices would allow a storage administrator to implement Fibre Channel over Ethernet (FCoE)?

- A. NIC
  - B. HCA
  - C. HBA
  - D. CNA
- Real 157  
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**Correct Answer:** D

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Explanation:

**QUESTION 434**

Which of the following would be BEST to ensure data immutability?

- A. Flash drive
- B. LTO-2
- C. Disk drive
- D. WORM

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 435**

During a power outage of a datacenter, a storage array did not shut down in a vendor's recommended fashion. When power is restored, the servers connected to the array indicate that the file systems are in a corrupted state. Which of the following was the MOST likely cause for this?

- A. Enclosure addressing has changed when power was restored
- B. An array controller failure has occurred
- C. The array controller read/write cache is faulty
- D. The switches were not shutdown gracefully

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 436**

High availability in a storage environment implies that:

- A. a single instance of each component is used.
- B. all volumes are using RAID-0.

- C. a single controller is used in all arrays.
- D. there is no single point of failure.

Real 158

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**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 437**

While testing access to Server A on a remote subnet, a storage administrator is unable to connect from their workstation. The administrator is only able to connect to Server B which resides on the same subnet as their workstation. A coworker is able to access Server A from their workstation. Which of the following is MOST likely misconfigured?

- A. Firewall rules
- B. Faulty network cable
- C. VLAN
- D. IP address

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 438**

When Server A accesses an FC based storage array, it experiences a core dump. Server B accesses the same array, and does not experience this issue. Which of the following should the administrator check FIRST?

- A. Cable from the server
- B. Switch firmware
- C. Zoning
- D. HBA drivers

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 439**

How many physical paths are supported on a SAS drive?

- A. 1
- B. 2
- Real 159
- CompTIA SG0-001 Exam
- C. 3
- D. 4

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 440**

How many initiators per zone should be used to adhere to BEST SAN zoning practices?

- A. One
- B. Two
- C. Four
- D. Unlimited

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 441**

Which of the following protocols would be used on a host to access network share called \\server1.chicago.net\data?

- A. FCoE
- B. CIFS
- C. FC
- D. iSCSI

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 442**

If a server reads 2MB of data using 4KB block size in 1 second from a storage array, how many IOPS have been generated?

- A. 256
- B. 512  
Real 160  
CompTIA SG0-001 Exam
- C. 768
- D. 1024

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 443**

Which of the following would BEST ensure equal I/O distribution across all paths?

- A. Active passive
- B. Active active
- C. Most recently used
- D. Round robin

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 444**

When trying to connect with a damaged network cable, which of the following will MOST likely result from the bad cable?

- A. Host not found
- B. Permission denied
- C. Packet loss
- D. Connection denied

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 445**

If the nslookup command is not available on the host, which of the following is the BEST command to resolve fully qualified domain name to IP address of a remote host?

- A. ping
- B. ifconfig
  - Real 161
  - CompTIA SG0-001 Exam
- C. vmstat
- D. iostat

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 446**

After an overnight upgrade during which equipment was moved, a server has become very slow in the fabric and the error rate is high. Which of the following should a technician check FIRST to find the problem?

- A. HBA drivers in the server
- B. Ethernet cable from switch to server
- C. Port configuration on the FC switch
- D. Fibre cable from switch to server

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 447**

Which of the following measures the performance overhead in an ISL between two switches?

- A. Bandwidth
- B. Latency
- C. Multipathing
- D. Hop

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 448**

Which of the following RAID levels can be implemented with three hard drives but has the HIGHEST latency? (Select TWO).

- A. RAID 0
  - Real 162
  - CompTIA SG0-001 Exam
- B. RAID 1

- C. RAID 3
- D. RAID 4
- E. RAID 5

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 449**

A biometric device is BEST used for which of the following purposes?

- A. Disk compression
- B. LUN masking
- C. Physical access
- D. File permissions

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 450**

A user can connect to a shared folder on a NAS device, but cannot access any files inside of the folder. Which of the following security settings need to be changed to grant the user access to the files?

- A. Encryption keys
- B. Share permissions
- C. File permissions
- D. LUN masking

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 451**

Which of the following documentation should be referenced FIRST when deciding how long to retain backup data?

Real 163

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- A. Offsite storage contract
- B. Standards compliance
- C. Industry best practices
- D. Corporate compliance

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 452**

Which of the following protocols is MOST likely used to generate events for review by an administrator?

- A. SNMP
- B. HTTP
- C. SMI-S
- D. WBEM

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 453**

A storage administrator has just installed a new SAN. Which of the following should the administrator establish for performance monitoring purposes?



- A. Capacity planning
- B. Free space thresholds
- C. Baseline
- D. Used space thresholds

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 454**

A new storage system with dual storage controllers is added to an HA SAN. The storage administrator attempts to zone a dual HBA host to the new storage system but can only connect to the first storage controller on HBA0 and the second storage controller on HBA1. After checking to

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ensure the link light is on for the fiber cable connecting the storage to the switch, which of the following should be checked NEXT?

- A. That multipath software has been installed and configured on the host
- B. That the SFP connectors are on the fibre channel switches
- C. That a port from each storage controller is connected to each fabric
- D. That the fiber cables from the host HBAs are connected to the switch ports

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 455**

Which of the following RAID levels offers the HIGHEST level of protection with the shortest rebuild time?

- A. RAID 3
- B. RAID 5
- C. RAID 6
- D. RAID 10



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**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 456**

The disk drives supporting an I/O intensive mission critical application are continuously 80 percent utilized and spike up to 100 percent throughout the business day. Which of the following options can improve the application performance? (Select TWO).

- A. Use higher speed server HBAs.
- B. Use dedicated SATA drives.
- C. Move the application to SSD.
- D. Add additional HBAs to the host.
- E. Move the application to short stroke FC drives.

**Correct Answer:** CE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

answer is up-to-date.

**QUESTION 457**

A Chief Information Officer (CIO) has determined that creating a highly available environment is desirable, but budget concerns will dictate what redundancy is added in the near future. Which of the following should the SAN administrator recommend? (Select TWO).

- A. Implement a VTL backup solution
- B. Install a secondary storage array for mirroring data

- C. Install multiple port HBAs on SAN-connected servers
- D. Install duplicate storage array controllers
- E. Deploy switches to provide a secondary fabric

**Correct Answer:** CE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 458**

A dual-controller, active/active storage array is servicing I/O for 10 mission-critical systems. Controller A loses power and fails and all traffic is immediately routed to controller B and all pending writes from controller A have been committed to disk without issue. Which of the following features describes this functionality?

- A. Battery backed cache
- B. Data Mirroring
- C. Cache Mirroring
- D. Disk Mirroring

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 459**

A server is attached to a dual-controller array via a single port HBA. The fabrics are fully redundant and connected to each of the array controllers in an appropriate fashion. Which of the following is necessary to provide load balancing on the server?

- A. A second HBA must be installed on the server and attached to the second fabric.
- B. Both fabrics must contain the same number of switches at the same firmware level.
- C. The server should be clustered and attached to a secondary array.
- D. Both array controllers must have ports available in each fabric.

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**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 460**

An administrator has just archived 50 percent of a file share's data to tape. The administrator then proceeds to clear the unused space so that it is available for use by the server and array. On the array, the original LUN was provisioned in a way that allows such an operation. This process is called which of the following?

- A. Thin provisioning
- B. VLAN configuration
- C. Thin reclamation
- D. VSAN configuration

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 461**

An environment includes an active/passive array and 2Gbps ports for the array controllers, switches, and host HBAs. The SAN is fully redundant and highly available. A new host is attached and LUNs are assigned to benchmark throughput. Which of the following is the HIGHEST throughput the administrator can expect?

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

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 462**

The backup regimen for a file server is to run a full backup every Sunday and cumulative incremental backups Monday thru Saturday evenings. On Wednesday morning, the server and storage are lost in a catastrophic event. Assuming a different backup tape is used every day, how

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many tapes are required to recover the server?

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 463**

Which of the following is a protocol that enables serverless backup?

- A. SMTP
- B. SNMP
- C. NDMP
- D. SMPTE

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 464**

A technician has completed a replacement of the customer's 1Gbps FC switches with new 4Gbps FC switches. All HBAs in the servers and storage arrays were also upgraded. To save money, the customer installed into the original cable plant. After all zoning changes were completed, and devices were brought online, the servers are not able to connect properly to the storage arrays.

Which of the following is the MOST likely problem?

- A. The servers are not running the correct operating system to use 4Gbps.
- B. Zoning needs to be changed for the new switch Domain IDs.
- C. The cable plant is not up to specification for the 4Gbps data rates.
- D. The storage arrays do not support the new adapter firmware.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 465**

The name server shows an FC switch port connected to a VM Server with 6 different WWPNs.  
This is an example of which of the following?

- A. Multipathing
- B. VSAN
- C. Virtual fabric
- D. NPIV

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 466**

When connecting two Fibre Channel switches using different domain IDs, which of the following would be used?

- A. ISL
- B. DSL
- C. Trunking only
- D. Port channel

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 467**

Given that a particular de-duplication solution stores 1TB of data using only 140G of space, which of the following is the resulting de-duplication ratio?

- A. 7: 1
- B. 10: 1
- C. 70: 1
- D. 100: 1

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

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**QUESTION 468**

A server administrator has been asked to move data between two different vendor storage arrays. The LUN from the target array has been provisioned and is slightly bigger than the LUN from the source array. The application must remain online during the entire migration process, including removing the source array LUNs. Which of the following methods would be MOST appropriate?

- A. Use array based replication to make a block based copy of the data.
- B. Use an operating system based file copy tool to move the data to a new file system.
- C. Restore a copy of the data on to the target LUN from a recent backup.
- D. Use an LVM to create a host mirror between the source and target LUNs.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 469**

An appliance that receives a data file and returns a file identifier based on the signature of the file is an example of which of the following storage devices?

- A. Tape
- B. NAS
- C. VTL
- D. CAS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 470**

An administrator has a requirement to monitor a particular piece of equipment with a monitoring tool utilizing Read Only community strings. Which of the following describes this example?

- A. CHAP
- B. Kerberos
- C. SMI-S
- D. SNMP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 170

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**QUESTION 471**

A particular application has a need for two different types of data to be stored. One part of the application generates small block, highly random I/O, while another part of the application generates large block, sequential I/O. Which of the following provides the BEST combination of performance and cost effectiveness?





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- A. SAS for small block/random I/O, SATA for the large block/sequential I/O
- B. SATA for small block/random I/O, SAS for the large block/sequential I/O
- C. SATA for both types of I/O
- D. SAS for both types of I/O

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 472**

Which of the following allows multiple hosts that are connected to the same storage array to only access their assigned storage?

- A. VLANs
- B. LUN masks
- C. Zones
- D. VSANs

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 473**

A technician has been tasked with adding equipment to a rack. Which of the following should be followed to minimize the chance for injury while installing the equipment?

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- A. Proper lifting techniques
  - B. Hot-cold aisle implementation
  - C. ESD straps
  - D. Proper redundant power distribution
- Real 171  
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**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 474**

Storage arrays that are used with backup applications and emulate tape systems is commonly referred to as which of the following?

- A. D2D2T
- B. VTL
- C. LTO
- D. ATM

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 475**

Which of the following could be referenced to determine if a host HBA has properly registered in an FC fabric?

- A. Alias server
- B. Fabric service
- C. DNS
- D. Name server

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 476**

An administrator needs to increase performance of the current storage array. All of the bays are full so the administrator needs to replace the current 450GB 10k FC drives without decreasing capacity. Which of the following will achieve this goal?

- A. 300GB 10k SATA drives
- B. 300GB 10k FC drives
- C. 450GB 7.2k SATA drives  
Real 172  
CompTIA SG0-001 Exam
- D. 450GB 15k FC drives

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 477**

Which of the following controller functions allows uncommitted writes to be protected during storage controller failover in a dual controller array?

- A. Cache mirroring
- B. Battery backed cache
- C. Cache de-staging
- D. Cache re-initialization

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 478**

An administrator wants to achieve MAXIMUM component redundancy in a server running single quad-headed HBA. Which of the following will satisfy this goal?

- A. Replace quad-headed HBA with 2 dual-headed FCoE adapters.
- B. Replace quad-headed HBA with 2 dual-headed HBAs.
- C. Replace quad-headed HBA with 2 single-headed HBAs and 1 dual-headed.
- D. Replace quad-headed HBA with 4 single-headed HBAs.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 479**

Which of the following redundant components is utilized during partial electrical failures?

- A. NICs
- B. PDUs
- C. HVAC  
Real 173  
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- D. HBAs

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 480**

To ensure ongoing communication between a server and a storage network, the server should be connected to at least two separate:

- A. switches.
- B. power supplies.
- C. storage arrays.
- D. ISLs.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 481**

In order to provide additional protection to a RAID group, which of the following should the administrator use?

- A. Distributed parity
- B. Cold spare
- C. Dedicated parity
- D. Hot spare

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 482**

In which of the following is a single connection acceptable for a storage network?

- A. Connecting to Ethernet virtual fabric
- B. Connecting to FC-SW  
Real 174  
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- C. Connecting to a dedicated VLAN
- D. Connecting to FC-AL

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 483**

Which of the following disk types is MOST cost effective for near line storage?

- A. SATA
- B. SSD
- C. SAS
- D. SCSI

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 484**

Which of the following would be an indicator that a storage array is properly handling read requests?

- A. High disk drive latency
- B. High cache hit rate
- C. Green environment indicators
- D. Low cache hit rate

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 485**

An administrator needs to present the same LUN to multiple servers. Which of the following will support the requirement? (Select TWO).

- A. All servers are running the same operating system.
- B. The file system on the LUN is cluster aware.
- C. All but one of the servers is READ only.

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- D. All HBAs are running the same firmware version.
- E. All servers are part of the cluster.

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 486**

A storage administrator notices that a server is intermittently losing access to its storage over a single path. Which of the following statistics on an FC switch would have a high count value in this situation?

- A. Core PID
- B. Rx error count
- C. dB levels
- D. Loss of signal

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 487**

To increase storage performance, a storage administrator is setting up a new LUN for an application. This application usually has a high number of reads compared to the number of writes being performed. Which RAID level would provide the BEST performance for this volume, while still maintaining fault tolerance?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 488**

A storage administrator is auditing an environment and finds that an unknown person accessed

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the company silo and removed a number of tapes. These tapes had sensitive company IP and PII on them, now putting the company in a legally precarious situation. Which of the following could the administrator do to ensure that lost data is not usable by an unauthorized person in the future?

- A. Password encryption
- B. Tape encryption
- C. Disk encryption
- D. Network encryption

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 489**

A storage administrator is receiving reports that nightly backups are impacting system performance during the beginning of the business day. All servers are backed up via the network to a backup server that writes directly to tape. Network administrators indicate there is plenty of bandwidth to the backup server even when the system slows down. Which of the following can be implemented to BEST speed up backups?

- A. Install a disk-to-tape solution
- B. Install a faster network link to the backup server
- C. Increase the number of tapes available
- D. Add a second backup server

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:



**QUESTION 490**

Which of the following technologies would work BEST for a company spread across a number of locations in a city to connect all their networks?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

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**QUESTION 491**

An administrator is attempting to recover corrupted data from a four disk RAID group. However, the administrator does not know which RAID level was used. When investigating the volumes, the administrator notes that there is a duplicate of all data on two of the disks. Which of the following RAID levels was in use?

- A. RAID 0
- B. RAID 5
- C. RAID 6
- D. RAID 10

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 492**

Given an array with sixteen 300GB drives, a storage administrator needs to know how much raw usable space can be made available while still maintaining a highly available RAID configuration with two hot spares. Which of the following is the MAXIMUM capacity that can be allocated and at which RAID level?

- A. 2.1TB, RAID 1

- B. 3.6TB, RAID 6
- C. 3.9TB, RAID 5
- D. 4.8TB, RAID 0

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 493**

When gathering simple baseline statistics for a storage array, a storage administrator should gather which of the following? (Select TWO).

- A. Read/Write errors
- B. Number of switches connected  
Real 178  
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- C. Reads/Writes performed
- D. Read/Write throughput
- E. Port loss of signal counts

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 494**

A server has dual power supplies, dual mirrored hard drives, multi-pathed multiple NICs, and a dual port HBA for access into a SAN. Which of the following components is a single point of failure?

- A. Power supplies
- B. HBA
- C. NICs
- D. System hard drives

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 495**

A new storage array is being cabled into a rack. The array has dual controllers, each disk tray has dual power supplies, and there are two in-rack PDUs (C and D). Which of the following is the BEST method for hooking up power?

- A. Connect controller A's PSUs to PDU C, controller B's PSUs to D, alternate drive trays between PDUs C and D.
- B. Connect all drive tray PSUs to C and all controller PDUs to D.
- C. Connect both controller's PSUs to C and all drive tray PSUs to D.
- D. Split all PSU connections between C and D equally.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 496**

An administrator needs to assign LUN IDs for two new LUNs from the same storage array. The

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first LUN is being presented as LUN 0 to multiple hosts. The second LUN is being dedicated to a single server which is also included in the group of hosts LUN 0 is presented to. Which of the following is the LOWEST LUN ID that can be assigned to the second LUN?

- A. 0
- B. 1
- C. 2
- D. 16

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 497**

In a direct current only datacenter, which of the following is the MOST important rack installation concern?

- A. Sufficient power capacity
- B. Adequate division of circuits
- C. Adequate humidity control
- D. Grounding of all components

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 498**

Which of the following are the MOST important properties to remember when replacing a faulty SFP? (Select TWO).

- A. SFP TX power
- B. Distance rating
- C. Port speed
- D. SFP RX power
- E. Driver version

**Correct Answer: BC**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

answer is modified.

**QUESTION 499**

Which of the following is the MOST important item a storage administrator should check FIRST for a successful fabric merge?

- A. Faulty SFPs in the switch
- B. Number of aliases in the zoning database
- C. Domain IDs

D. Total number of ports in the combined fabric

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 500**

Which of the following protocols transmits a password in clear text on the network during the login process?

- A. SFTP
- B. SSH
- C. Telnet
- D. HTTPS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 501**

A switch with 8Gb ports has been connected with five hosts running at 4Gb speed and two at 2Gb speed. If the switch is communicating through an ISL with another 8Gb switch where the storage array is connected, which of the following will be the oversubscription ratio of this configuration?

- A. 1: 1
- B. 2: 1
- C. 3: 1
- D. 5: 1

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 502**

An administrator is tasked to programmatically create twenty 64GB LUNs and one 1GB LUN to be assigned to a four node cluster. Which of the following tools should be used to satisfy the request?

- A. CLI
- B. SMI-S
- C. GUI
- D. SNMP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 503**

A senior administrator configuring a firewall would like to know the IP address of a frequently accessed website to verify that site was not accidentally blocked in the content filter by the junior administrator's recently-added range of blocked IP addresses. Which of the following tools would be used to find the IP address of the website?

- A. ipconfig/ifconfig
- B. nslookup
- C. netstat
- D. tracert/traceroute

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 504**

A user reports lack of network connectivity on a laptop. No hardware changes have recently occurred on the laptop. Which of the following should the technician check FIRST?

- A. Port
  - B. Cable
  - C. Firewall
  - D. NIC configuration
- Real 182  
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**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 505**

A small business would like to install their new storage equipment in a closet off of their pool deck. Which of the following environmental concerns should a technician consider FIRST?

- A. Fire suppression
- B. Humidity control
- C. Sufficient power
- D. Rack loading

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 506**

Which of the following RAID levels provides the BEST guarantee that data will be retained in the event of drive failure without requiring a rebuild?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 507**

Which of the following is used to forward traffic from internal IP addresses to external IP addresses?

- A. Hub
  - B. Router
  - C. CNA
  - D. NIC
- Real 183  
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**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 508**

A client has requested a new 4TB storage system. They need redundancy built in as well as some scalability. This should be attached to the current network, consisting of SAS and SCSI based servers, on a copper gigabit network. Low price is crucial. Which of the following would be the BEST solution?

- A. A Fiber Channel SAN containing five 1TB FC drives in a RAID 5 configuration, with five empty slots for expansion.
- B. Four independent 1TB NAS devices.
- C. An iSCSI SAN containing five 1TB SATA drives in a RAID 5 configuration, with five empty slots for expansion.
- D. Attaching a DAS to one of the existing servers, containing nine 300GB SAS drives in a RAID 5 configuration, with a hot spare drive.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



**QUESTION 509**

Which of the following is a benefit of having up-to-date firmware on an iSCSI adapter?

- A. Allows TOE to be implemented the same way regardless of vendor.
- B. Addresses any security vulnerabilities found in a particular TOE implementation.
- C. The adapter can easily FIP with the forwarder.
- D. Reduces the very large changes to the networking stack.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 510**

Which of the following backup methodologies is MOST likely used by a company that has monthly, weekly, and daily backup tapes?

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- A. Incremented Media Method
- B. Grandfather-Father-Son
- C. Towers of Hanoi
- D. Partial backups

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 511**

Which of the following is true of SAS compared to SATA?

- A. The maximum cable length for SAS is 10 meters (32.8 feet) vs. 1 meter (3.28 feet) for SATA.
- B. SAS only supports hard drives and optical drives, while SATA also supports scanners and printers.

- C. SATA has a faster interface than SAS.
- D. SATA uses higher signaling voltages than SAS.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 512**

Which of the following RAID levels stripes data across sets of disks and also mirrors those disks?

- A. RAID 1+0
- B. RAID 4
- C. RAID 5
- D. RAID 6

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 513**

Which of the following can be described as taking a software application that would normally run on a local computer, and running the application as a remote web service?

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- A. Multicasting
- B. Cloud computing
- C. Broadcasting
- D. Distributed computing

**Correct Answer:** B

**Section:** (none)

**Explanation****Explanation/Reference:**

Explanation:

**QUESTION 514**

Which of the following backup techniques is MOST likely to require the LEAST amount of data transfer during each backup cycle?

- A. File incremental
- B. Block incremental
- C. File differential
- D. Block differential

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:**

Explanation:

**QUESTION 515**

Which of the following would be required to connect to an FCoE SAN?

- A. iSCSI adapter
- B. Converged network adapter
- C. Host bus adapter
- D. TOE-enabled adapter

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:**

Explanation:

**QUESTION 516**

Which of the following could be used to connect SAN devices via 10Gbit Ethernet WITHOUT relying on TCP/IP?

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- A. FC-SW
- B. iSCSI
- C. FCoE
- D. iFCP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Real 187

**QUESTION 517**

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:**

Explanation:

**QUESTION 518**

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:**

Explanation:

**QUESTION 519**

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 520**

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:**

Explanation:

**QUESTION 521**

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**QUESTION 522**

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:**

Explanation:

Real 3  
CompTIA SG0-001 Exam

**QUESTION 523**

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:**

Explanation:

**QUESTION 524**

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:**

Explanation:

**QUESTION 525**

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:**

Explanation:

**QUESTION 526**

Real 4

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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 B.
- D. Connected to the core; half of the connections to each storage array controller connects to each of the fabrics.
- E. Connected to the edge switches; each controller has its connections balanced between all edge switches on both fabrics.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

#### **QUESTION 527**

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:**

Explanation:

**QUESTION 528**

Real 5

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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:**

Explanation:

**QUESTION 529**

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:**

Explanation:

**QUESTION 530**

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:**

Explanation:

**QUESTION 531**

An IT Administrator needs to have which of the following devices in order to share an FC storage



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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:**

Explanation:

**QUESTION 532**

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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:**

Explanation:

#### **QUESTION 533**

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:**

Explanation:

Real 7

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#### **QUESTION 534**

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:**

Explanation:

**QUESTION 535**

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:**

Explanation:

**QUESTION 536**

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:**

Real 8  
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Explanation:

**QUESTION 537**

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:**

Explanation:



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