CompTIA SG0-001

CompTIA Storage+ Powered by SNIA
Version: 6.1

QUESTION NO: 1

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

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

Answer: A
Explanation:

QUESTION NO: 2

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

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

Answer: D
Explanation:

QUESTION NO: 3

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

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

Answer: B
Explanation:

QUESTION NO: 4

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

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

Answer: D

Explanation:

QUESTION NO: 5

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

A. Router
B. Bridge
C. GiGE switch
D. 10/100 switch

Answer: B

Explanation:

QUESTION NO: 6

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

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

Answer: C

Explanation:

QUESTION NO: 7

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

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

Answer: C
Explanation:

QUESTION NO: 8

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

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

Answer: B
Explanation:

QUESTION NO: 9

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

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

Answer: C
Explanation:

QUESTION NO: 10

Given the below system requirements:

- Two Fabrics

- Each fabric has 4 switches, 1 core director and 3 edge switches

- A new storage array is being added

- HA environment that is fully redundant

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

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

Answer: D
Explanation:

QUESTION NO: 11

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

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

Answer: D
Explanation:

QUESTION NO: 12

Which of the following replication types is the FASTEST?

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

Answer: A
Explanation:

QUESTION NO: 13

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

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

Answer: B
Explanation:

QUESTION NO: 14

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

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

Answer: D
Explanation:

QUESTION NO: 15

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

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

Answer: B
Explanation:

QUESTION NO: 16

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

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

Answer: D
Explanation:

QUESTION NO: 17

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

A. VLAN
B. Virtual Fabric
C. NPIV
D. Virtual Storage

Answer: C
Explanation:

QUESTION NO: 18

A SAN administrator is troubleshooting a connectivity issue between a new server and a FC

switch. The link is running at 8Gbps and uses a 90 meter (295 feet) optical cable. Which of the following is the FIRST item the administrator should check or perform?

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

Answer: B
Explanation:

QUESTION NO: 19

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

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

Answer: D
Explanation:

QUESTION NO: 20

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

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

Answer: B
Explanation:

QUESTION NO: 21

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

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

Answer: B,D
Explanation:

QUESTION NO: 22

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

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

Answer: C
Explanation:

QUESTION NO: 23

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

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

Answer: B
Explanation:

QUESTION NO: 24

An administrator would like to employ a strategy to use SAN space more efficiently. Data that has a high I/O and is accessed often should be moved to SSD and Fiber Channel drives while data accessed less often should be moved to the higher capacity SATA drives. Which of the following features describes this strategy?

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

Answer: C
Explanation:

QUESTION NO: 25

Which of the following describes an ISL connection?

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

Answer: D
Explanation:

QUESTION NO: 26

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

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

Answer: C