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**Vendor:** CompTIA

**Exam Code:** SG0-001

**Exam Name:** CompTIA Storage+ Powered By SNIA  
Certification Exam

**Version:** Demo

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## Topic 1, Volume A

### Question No : 1 - (Topic 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**

### Question No : 2 - (Topic 1)

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**

### Question No : 3 - (Topic 1)

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**

### Question No : 4 - (Topic 1)

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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**

**Question No : 5 - (Topic 1)**

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**

**Question No : 6 - (Topic 1)**

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

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

**Answer: C**

**Question No : 7 - (Topic 1)**

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**

**Question No : 8 - (Topic 1)**

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**

**Question No : 9 - (Topic 1)**

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**

**Question No : 10 - (Topic 1)**

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

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- 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**

**Question No : 11 - (Topic 1)**

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**

**Question No : 12 - (Topic 1)**

Which of the following replication types is the FASTEST?

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

**Answer: A**

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**Question No : 13 - (Topic 1)**

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**

**Question No : 14 - (Topic 1)**

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**

**Question No : 15 - (Topic 1)**

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**

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**Question No : 16 - (Topic 1)**

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**

**Question No : 17 - (Topic 1)**

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

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

**Answer: C**

**Question No : 18 - (Topic 1)**

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.

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**Answer: B**

**Question No : 19 - (Topic 1)**

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**

**Question No : 20 - (Topic 1)**

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**

**Question No : 21 - (Topic 1)**

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.

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E. Both switches need to be running the same firmware level.

**Answer: B,D**

**Question No : 22 - (Topic 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

**Answer: C**

**Question No : 23 - (Topic 1)**

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**

**Question No : 24 - (Topic 1)**

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**

**Question No : 25 - (Topic 1)**

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**

**Question No : 26 - (Topic 1)**

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**

**Question No : 27 - (Topic 1)**

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

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**Answer: C**

**Question No : 28 - (Topic 1)**

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

**Answer: A**

**Question No : 29 - (Topic 1)**

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

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

**Answer: B**

**Question No : 30 - (Topic 1)**

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

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**Answer: C**

**Question No : 31 - (Topic 1)**

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.

**Answer: C**

**Question No : 32 - (Topic 1)**

Queue Depths can be defined as which of the following?

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

**Answer: B**

**Question No : 33 - (Topic 1)**

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

**Answer: A**

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**Question No : 34 - (Topic 1)**

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

**Answer: D**

**Question No : 35 - (Topic 1)**

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

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

**Answer: D**

**Question No : 36 - (Topic 1)**

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

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separate fabrics.

D. Shared volumes should be mapped to both servers via multiple storage interfaces.

**Answer: D**

**Question No : 37 - (Topic 1)**

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

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

**Answer: A**

**Question No : 38 - (Topic 1)**

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

**Answer: B,C**

**Question No : 39 - (Topic 1)**

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

**Answer: D**

**Question No : 40 - (Topic 1)**

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

**Answer: B**

**Question No : 41 - (Topic 1)**

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)

**Answer: C**

**Question No : 42 - (Topic 1)**

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

- A. Virtual fabric

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