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The Power of Knowing



Exam : S10-100

Title : Storage Network Foundations

Ver : 07-16-08

**QUESTION 1:**

What are two advantages of IP storage networking? (Choose two.)

- A. lower propagation delay
- B. support up to 16 million devices
- C. builds on SCSI and Ethernet technologies
- D. takes advantage of existing knowledge base

Answer: C, D

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**QUESTION 2:**

What is a shared communication infrastructure device to which nodes on a multi-points bus or loop are physically connected?

- A. hub
- B. switch
- C. gateway
- D. managed switch

Answer: A

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**QUESTION 3:**

Which architecture allows system-to-system communication and user level DMA with as little CPU interaction as possible, most particularly for clustering?

- A. FAIS
- B. FC-VI
- C. FC-CT
- D. FC-SW

Answer: B

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**QUESTION 4:**

Which SMB security entity provides locking?

- A. share ACL
- B. NFS export
- C. deny modes
- D. CIFS authorization

Answer: C

**QUESTION 5:**

Which three options are benefits of using storage based replication? (Choose three.)

- A. minimal or no host load
- B. host platform independent
- C. minimal client network load
- D. storage platform independent
- E. minimal storage network load

Answer: B, C, D

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**QUESTION 6:**

Which three standards are the responsibility of the Internet Engineering Task Force? (Choose three.)

- A. IEEE
- B. SNMP
- C. NDMP
- D. Policy for QoS
- E. IP over Fibre Channel

Answer: B, D, E

IETF ([www.ietf.org](http://www.ietf.org)) -- Internet Engineering Task Force. The standards body responsible for a wide variety of TCP/IP (Transmission Control Protocol/Internet Protocol) standards, including: SNMP, Simple Network Management Protocol - A protocol for monitoring and managing systems and devices in a network. The data being accessed is defined by a MIB (Management Information Base, also defined in the IETF). The functions supported by the protocol are the request and retrieval of MIB data, the setting or writing of data, and traps to signal the occurrence of events. IP over Fibre Channel Policy for QoS (quality of service)

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**QUESTION 7:**

What is the minimal iSCSI security level needed to protect against man-in-the-middle insertion, modification or deletion?

- A. none
- B. encryption (IPsec)
- C. Initiator and Target Authentication
- D. digest for header and data integrity

Answer: D

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**QUESTION 8:**

A customer is implementing a disaster recovery plan to backup data to a remote location 200

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kilometers from their production facility.  
Which proposal should they use?

- A. Synchronously replicate data between the two sites using DWDM.
- B. Asynchronously replicate data between the two sites using DWDM.
- C. Synchronously replicate data between the two sites using a completely fibre solution.
- D. Asynchronously replicate data between the two sites using a completely fibre solution.

Answer: B

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**QUESTION 9:**

Which SMI-S related acronym describes an object-oriented description of the entities and relationships in a business management environment, divided into core and common models?

- A. CIM
- B. SRM
- C. DRM
- D. DMTF

Answer: A

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**QUESTION 10:**

Which virtualization technique requires the addition of an agent to each host for the purpose of managing storage allocation?

- A. host-based LVM
- B. in-band appliance
- C. out-of-band appliance
- D. array-based LUN masking

Answer: C

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**QUESTION 11:**

Which concept includes considerations such as data placement, deletion, repurposing, and regulatory archiving.

- A. tiers of management
- B. backup and recovery
- C. common data usage model
- D. information lifecycle management

Answer: D

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**QUESTION 12:**

What are three advantages of NAS? (Choose three.)

- A. File services can be extended to hundreds of devices
- B. Easy to implement using the same protocols as file servers
- C. Provides a high-speed data path between servers and storage
- D. Clients running different operating systems can share the same files

Answer: A, B, D

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**QUESTION 13:**

What is the SNIA Shared Storage Model?

- A. description of storage components and their differences
- B. framework that captures the functional layers and properties of a storage system
- C. specification, a design, a product, a recommendation of a storage infrastructure
- D. systems architecture that describes partitioning of physical elements and their complex interactions

Answer: B

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**QUESTION 14:**

Which transport method requires correct electrical termination on both ends?

- A. SBus
- B. ATAPI
- C. PCI bus
- D. SCSI bus

Answer: D

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**QUESTION 15:**

A customer with a split mirror backup infrastructure requires an emergency restore of a database. The data files and archive logs are co-located in the same file system.

What is your first step after stopping the database?

- A. restore
- B. bring up the database in recovery mode
- C. copy archive logs to an alternate location
- D. change the database state to no archive logs

Answer: C

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**QUESTION 16:**

A stock trading application requires disaster tolerant storage for both transactional and analytical processing. The implementation resulted in both a database and a data warehouse.

- A. As initial storage is extended to match capacity changes, remote storage is added dynamically.
- B. The storage administrator creates a series of policies that specify remote and local replication at the policy client.
- C. The storage administrator creates a series of policies that specify remote and local replication at the policy provider.
- D. As local storage is extended to match capacity changes, remote storage is reconfigured within the capabilities of the storage pool.

Answer: A, B

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**QUESTION 17:**

Where is the virtualization performed that masks physical data layout?

- A. network
- B. FC switch
- C. host/server
- D. storage device

Answer: D

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**QUESTION 18:**

Which architectural model in the SCSI Architectural Model defines the objects, function and behavior independent of the physical interface used to transport those objects or perform the functions?

- A. FC-4
- B. iSCSI
- C. SCSI-3
- D. SCSI-FCP

Answer: C

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**QUESTION 19:**

What type of Fabric switch ports are joined to form an ISL?

- A. F\_Port to F\_Port
- B. N\_port to F\_Port
- C. E\_Port to E\_Port
- D. NL\_Port to E\_Port

Answer: C

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**QUESTION 20:**

Which two are characteristic of mid-tier DAS? (Choose two.)

- A. requires specialized training to manage
- B. storage must be located near the server
- C. data is not readily shared over many servers
- D. storage is accessible by any host anywhere on the network

Answer: B, C

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**QUESTION 21:**

What occurs when iSCSI has been implemented in software?

- A. FCIP is automatically enabled.
- B. Host CPU overhead increases.
- C. Network bandwidth increases to 10Gb/s.
- D. Performance is equal to Fibre Channel host bus adapters.

Answer: B

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**QUESTION 22:**

Which two recovery risks exist, given backup of a multi-protocol NAS device taken from a client system through an active share? (Choose two.)

- A. loss of SMB files
- B. loss of NFS meta data
- C. loss of CIFS meta data
- D. loss of ACL information

Answer: B, D

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**QUESTION 23:**

What are two disadvantages of using a parallel interface? (Choose two.)

- A. as the bus length increases, the chance of skew increases
- B. as the bus speed increases, the chance of skew increases
- C. as the number of devices attached to the bus increases, bus length decreases
- D. as the number of devices attached to the bus increases, bus queue depth increases

Answer: A, B

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**QUESTION 24:**

Which Storage solution supports remote mirroring of FC switch attached storage arrays in geographically dispersed data centers?

- A. iFCP
- B. FCIP
- C. iSNS
- D. iSCSI

Answer: B

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**QUESTION 25:**

Which type of storage management product would be used to perform LUN creation, mapping, and configuration without advanced integration of heterogeneous storage platforms?

- A. device manager
- B. logical data manager
- C. storage network manager
- D. network management system

Answer: A

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**QUESTION 26:**

Which storage management component typically contains proprietary interfaces and is vendor supplied?

- A. device manager
- B. logical data manager
- C. storage network manager
- D. network management system

Answer: A

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**QUESTION 27:**

Which utility typically enables abstraction of storage within a server?

- A. LVM
- B. switch zoning
- C. SAN appliance
- D. SMI-S monitoring tool



Answer: A

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**QUESTION 28:**

Which two performance criteria are used to determine the selection of a device for a tiered storage level?  
(Choose two.)

- A. user profile
- B. age of data
- C. speed (IOPs)
- D. RAID and availability

Answer: C, D

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**QUESTION 29:**

Which term refers to the information that can be accessed on a disk drive by all the heads without having to seek?

- A. sector
- B. cylinder
- C. read cache
- D. parity partition

Answer: B

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**QUESTION 30:**

What component is a configuration management element of an IP storage solution?

- A. HBA
- B. VSAN
- C. ISL
- D. VLAN

Answer: D

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**QUESTION 31:**

Which IP Storage protocol requires iSNS for discovery and management?

- A. FCIP
- B. SATA
- C. iFCP
- D. iSCSI

Answer: C

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**QUESTION 32:**

Which Fibre Channel class of service offers a "quality of service" with guaranteed bandwidth?

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

Answer: C

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**QUESTION 33:**

Which three interface points test the interoperability of SMI-S? (Choose three.)

- A. CIMOM to provider
- B. Client to CIM/WBEM
- C. CIM/WBEM to CIMOM
- D. CIM/WBEM to provider

Answer: A, B, C

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**QUESTION 34:**

What are three advantages of a SAN? (Choose three.)

- A. Heterogeneous servers can access a shared storage array.
- B. Heterogeneous servers can be backed up to a shared tape array.
- C. Storage arrays can appear as self contained, autonomous file servers.
- D. Clustered servers located in different buildings can access the same storage.

Answer: A, B, D

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**QUESTION 35:**

A small Internet startup company needs to implement a backup solution in their environment. Cost is a large concern, and performance is not as critical since their environment mainly sits idle during off hours. If a backup is not completed successfully, the customer has little concern and is able to run new backups at any time.

Which solution meets the customer's requirements for providing a low-cost solution and satisfies their current demand?

- A. LAN-free backup

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- B. Server-free backup
- C. over-the-network backup
- D. SAN without LAN-free backup

Answer: C

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**QUESTION 36:**

A clothing manufacturer is replicating its data asynchronously to a remote site. On the remote site, it creates a snapshot of the mirrored volume to use as a disaster tolerant backup. Which choice contains the steps to create a consistent copy of the data?

- A. simply create the snapshot
- B. quiesce the application at the production site, create the snapshot
- C. split the link between the production and mirrored volumes, create the snapshots
- D. split the production and mirrored volumes, quiesce the application at the production site, create the snapshot

Answer: B

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**QUESTION 37:**

Which three are advantages of using a SAN in a campus environment? (Choose three.)

- A. Consolidate storage in a data center
- B. Increase storage resource utilization
- C. Decrease network traffic due to backups
- D. Decrease network traffic due to storage decentralization

Answer: A, B, C

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**QUESTION 38:**

Which disk drive type relies on the host processor to perform all storage tasks?

- A. SCSI
- B. Parallel ATA
- C. Fibre Channel
- D. SAS (Serial Attached SCSI)

Answer: B

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**QUESTION 39:**

What is the maximum potential bandwidth of a Fibre Channel connection in a 2 Gb SAN?

- A. 100 MB/s

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- B. 200 MB/s
- C. 300 MB/s
- D. 400 MB/s

Answer: D

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**QUESTION 40:**

Which storage networking environment accesses the file system through a local area network?

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

Answer: B

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**QUESTION 41:**

Which two sub-components are required in a specialized NAS operating system? (Choose two.)

- A. file system
- B. user interface
- C. process scheduler
- D. communication protocols

Answer: A, D

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**QUESTION 42:**

Which two are advantages of hardware RAID controllers? (Choose two.)

- A. Volume management is performed by the server.
- B. Volume management is performed by controller card.
- C. Dedicated cache memory increases server write performance.
- D. Parity calculation by the server and cache memory in the RAID controller increases read and write performance.

Answer: B, C

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**QUESTION 43:**

Which Fibre Channel topology was initially introduced as a replacement for physical SCSI?

- A. FC\_AL
- B. FDDI

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- C. point-to-point
- D. switched Fabric

Answer: A

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**QUESTION 44:**

Certkiller .com's application and database will be rehosted and the underlying SCSI storage with an FC array. The new system's O/S, volume manager, application and database are incompatible, requiring many upgrades.

Which action would you recommend?

- A. Upgrade existing storage using host level migration.
- B. Create a snapshot replica of the new storage, making it available to the new host for test.
- C. Create a split mirror replica of the new storage, making it available to the new host for test.
- D. Upgrade exist host to current volume manager, application and database levels and then migrate to new host using NDMP.

Answer: A

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**QUESTION 45:**

Certkiller .com needs to implement a high availability model for its mission critical data. Cost is important, but the solution must meet the following criteria:

- 1) Data can never be offline for more than 10 minutes, even after a failure
- 2) Databases must be on line during backups.
- 3) The company is using RAID 5 and must guard against double disk failure

Which option is the most cost effective strategy and fulfils the constraints?

- A. Create a split mirror snapshot and use as a hot backup
- B. Create a copy on write snapshot and use as a hot backup
- C. Create a split mirror snapshot and backup the snapshot to tape
- D. Create a copy on write snapshot and backup the snapshot to tape

Answer: A

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**QUESTION 46:**

What is the family of Small Computer System Interface (SCSI) standards that define characteristics of the multi-signal I/O bus versions of the SCSI Interface?

- serial SCSI
- SCSI address
- SCSI parallel Interface
- SCSI Enclosure Services

Answer: C

**QUESTION 47:**

Which three may describe a NAS "head" or gateway? (Choose three.)

- integrated disk storage
- connection to an IP network
- clustering and failover features
- "file serving" to clients and servers

Answer: B, C, D

---

**QUESTION 48:**

What are two advantages of virtualization? (Choose two.)

- improves data integrity
- provides higher storage asset utilization
- allows file sharing between dissimilar applications
- increases the number of storage devices an operator can manage

Answer: B, D

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**QUESTION 49:**

Which protocol is used for backups on an Ethernet based network?

- A. FCIP
- B. NDMP
- C. iDMP
- D. iSNS

Answer: B

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**QUESTION 50:**

Which two are recognized by SNIA as elements of the storage virtualization taxonomy? (Choose two.)

- A. Disk Virtualization
- B. Host Virtualization
- C. Block Virtualization
- D. Cache Virtualization

Answer: A, C

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**QUESTION 51:**

What are the SCSI addressing components handled by the SCSI protocol?

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- A. SCSI bus, logical unit
- B. SCSI bus, target ID, logical unit
- C. SCSI bus, target ID, adaptor number
- D. SCSI bus, adaptor number, logical unit

Answer: B

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**QUESTION 52:**

Certkiller .com is creating a backup and recovery plan using split mirror technology. Which order of steps must be taken to ensure a consistent and restartable backup of data?

- A. quiesce application, flush buffers, split mirrors, backup data
- B. split mirrors, quiesce application, flush buffers, backup data
- C. split mirrors, flush buffers, quiesce application, backup data
- D. flush buffers, quiesce application, split mirrors, backup data

Answer: A

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**QUESTION 53:**

Which component is a configuration management element of fabric?

- A. HBA
- B. zone
- C. LUN
- D. VLAN

Answer: B

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**QUESTION 54:**

Which two RAID types use parity for data protection? (Choose two.)

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

Answer: B, D

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**QUESTION 55:**

What is a benefit of host-based data replication?

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- A. full utilization of host CPU resources
- B. storage device independent and application transparent
- C. uses existing storage area network connections to complete replication
- D. enables applications to virtualize host connectivity and parallel data processing

Answer: B

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**QUESTION 56:**

Which SMI-S interface role provides a common service for use by clients in locating services in the management environment?

- A. agent
- B. provider
- C. directory server
- D. management server

Answer: C

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**QUESTION 57:**

Which subset of target devices allow for scalability in the SCSI protocol?

- A. target ports
- B. I-T-L Nexus
- C. logical units
- D. Command Descriptor Blocks

Answer: C

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**QUESTION 58:**

Which standard management agent resides in the file/record layer if the SNIA storage object model?

- A. host
- B. device
- C. network
- D. database

Answer: D

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**QUESTION 59:**

Which three upper layer protocols are supported by Fiber Channel? (choose three)

- A. VI



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- B. IP
- C. SCSI
- D. ATAPI

Answer: A,B,C

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**QUESTION 60:**

Which two recovery risks exist, given backup of a multi-protocol NAS device taken from a client system through an active share? (choose two)

- A. loss of SMB files
- B. loss of NFS meta data
- C. loss of CIFS meta data
- D. loss of ACL information

Answer: B,D

---

**QUESTION 61:**

Which two Storage Virtualization classifications are host based? (choose two)

- A. File/Record
- B. File System
- C. File Allocation
- D. File Redundancy

Answer: A,B

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**QUESTION 62:**

Which two are strengths of high end storage arrays in a SAN? (Choose two)

- A. provides higher availability
- B. no retraining is required to manage
- C. servers and storage can scale independently
- D. costs are comparable to DAS or NAS solution

Answer: A,C

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**QUESTION 63:**

Which SMI-S interface role server management information from multiple devices or underlying subsystem providers and enables proxy access to devices/subsystems?

- A. agent

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- B. CIM server
- C. Lock manager
- D. Directory server

Answer: B

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**QUESTION 64:**

What are two advantages of a switched fabric over arbitrated loop topology? (choose two)

- A. A single Fabric can scale to 2048 switches.
- B. Failure of a single device in a switched topology affects only that device.
- C. Each device arbitrated to gain access to the switch thus avoids contention.
- D. Number of devices that can be attached increases as the size of the switching structure expands.

Answer: B,D

---

**QUESTION 65:**

Which transport method requires correct electrical termination on both ends?

- A. Sbus
- B. ATAPI
- C. PCI bus
- D. SCSI bus

Answer: D

---

**QUESTION 66:**

What component is a configuration management element of an IP storage solution?

- A. HBA
- B. VSAN
- C. ISL
- D. VLAN

Answer: D

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**QUESTION 67:**

What are two examples of active, malicious attacks possible in IP Storage transport environments?  
(Choose two)

- A. eavesdropping
- B. identity spoofing

- C. man-in-the-middle
- D. data origin authentication

Answer: B,C

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**QUESTION 68:**

What is the basic order of a snapshot creation process?

- A. flush, snapshot, backup, release
- B. flush, quiesce, snapshot, backup
- C. quiesce, flush, snapshot, backup
- D. flush, quiesce, snapshot, backup

Answer: C

---

**QUESTION 69:**

What are the SCSI addressing components handled by the SCSI protocol?

- A. SCSI bus, logical unit
- B. SCSI bus, target ID, logical unit
- C. SCSI bus, target ID, adaptor number
- D. SCSI bus, adaptor number, logical unit

Answer: B

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**QUESTION 70:**

Which unit physically stores data and protects against errors on a fixed block architecture disk?

- A. head
- B. cache
- C. sector
- D. cylinder

Answer: C

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**QUESTION 71:**

Which default network file sharing protocol is used by Microsoft Windows clients in a NAS environment?

- A. IPX
- B. NFS
- C. DNS

D. CIFS

Answer: D

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**QUESTION 72:**

What are three disadvantages of NAS when compared to Fiber Channel for database applications?  
(choose three)

- A. multi-path failover
- B. distance from server
- C. Ethernet bandwidth limitations
- D. Scalability beyond single appliance

Answer: A,C,D

---

**QUESTION 73:**

What is a virtual replication of a data volume typically used for short term backup and recovery purposes?

- A. split mirror snapshot
- B. copy-on-write snapshot
- C. storage based data replication
- D. network based data replication

Answer: B

---

**QUESTION 74:**

Which SMB security entity provides locking?

- A. share ACL
- B. NFS export
- C. Deny modes
- D. CIFS authorization

Answer: C

---

**QUESTION 75:**

Which component is a configuration management element of a host?

- A. HBA
- B. Zone
- C. LUN

D. VLAN

Answer: A

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**QUESTION 76:**

Which protocol is the responsibility of the Network Data Management Task Force?

- A. DMP
- B. NDMT
- C. DNMP
- D. NDMP

Answer: D

---

**QUESTION 77:**

Which subset of target devices allow for scalability in the SCSI protocol?

- A. target ports
- B. I-T-L Nexus
- C. Logical units
- D. Command Descriptor Blocks

Answer: C

---

**QUESTION 78:**

Certkiller .com is creating a backup and recovery plan using split mirror technology. Which order of steps must be taken to ensure a consistent and restorable backup of data?

- A. quiesce application, flush buffers, split mirrors, backup data
- B. split mirrors , flush buffers, split mirrors, backup data
- C. split mirrors , flush buffers ,quiesce application, backup data
- D. flush buffers quiesce application, split mirrors, backup data

Answer: A

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**QUESTION 79:**

Which two concepts provide block-based backup and recovery? (choose two)

- A. disk-free
- B. LAN-free
- C. SAN-free
- D. Server-free

Answer: B,D

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**QUESTION 80:**

Certkiller .com is implementing a disaster recovery plan. When planning the performance impact of the solution which three concerns should be taken into consideration? (choose three)

- A. distance between sites
- B. technology linking the remote sites
- C. write intensive nature of applications
- D. RAID type used by data on local array

Answer: A,B,C

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**QUESTION 81:**

Which standard defines a programming framework for implementing storage applications, including storage pooling, data replication and virtualization between heterogeneous storage systems?

- A. FAIS
- B. FIPS
- C. FC-VI
- D. FC-GS

Answer: A

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**QUESTION 82:**

Certkiller .com's application and database will be rehosted and the underlying SCSI storage subsystem replaced with an FC array. The new system's O/S, volume manager, application and database are incompatible, requiring many upgrades.

Which action would you recommend?

- A. Upgrade existing storage using host level migration
- B. Create a snapshot replica of the new storage, making it available to the new host for test
- C. Create a split mirror replica of the new storage, making it available to the new host for test
- D. Upgrade existing host to current volume manager, application and database levels and then migrate to new host using NDMP

Answer: A

---

**QUESTION 83:**

What is the minimal iSCSI SECURITY LEVEL NEEDED TO PROTECT AGAINST MAN-IN-THE-MIDDLE INSERTION, MODIFICATION OR DELETION?

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- A. none
- B. encryption (Ipsec)
- C. initiator and Target Authentication
- D. digest for header and data integrity

Answer: D

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**QUESTION 84:**

Which RAID type is the best choice when performance is more important than protection?

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

Answer: B

---

**QUESTION 85:**

What are two advantages of virtualization? (choose two)

- A. improves data integrity
- B. provides higher storage asset utilization
- C. allows file sharing between dissimilar applications
- D. increase the number of storage devices an operator can manage

Answer: B,D

---

**QUESTION 86:**

A large credit reporting agency has deployed a SAN infrastructure, and is now trying to design a backup solution. Cost is not a concern. Data availability and minimal production impact, however, are critical to the desired result. Backup should be after hours, and require as few host resources as possible allowing the applications to continue running unhindered.

Which backup and recovery solution satisfies the customer requirements and provides the highest level of availability?

- A. NDMP backup
- B. LAN-free backup
- C. SAN without LAN-free backup
- D. Over-the-network based backup

Answer: B

---

**QUESTION 87:**

Which virtualization technique is best suited for low-cost, short term replication of data where storage utilization and replication creation must be minimized?

- A. full copy snapshot
- B. multi-site block storage
- C. copy-on-write snapshot
- D. storage virtualized tape drives

Answer: C

---

**QUESTION 88:**

What is the maximum potential bandwidth of a Fiber Channel connection in a 2 Gb SAN?

- A. 100 MB/s
- B. 200 MB/s
- C. 300 MB/s
- D. 400 MB/s

Answer: D

---

**QUESTION 89:**

Which protocol allows booting from the network?

- A. IFCP
- B. ICUP
- C. FCIP
- D. ISCSI

Answer: D

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**QUESTION 90:**

What is a Fiber Channel HBA?

- A. A device that interfaces Fiber Channel to a SCSI bus.
- B. A device that interfaces Fiber Channel with Gigabit Ethernet.
- C. A device that interfaces Fiber Channel with a computer system.
- D. A device that interfaces Fiber Channel with Ethernet storage arrays.

Answer: C

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**QUESTION 91:**

Which type of storage management product supports some standards such as SNMP agents and telnet interfaces, as well as provides front and rear device views with status?

- A. device manager
- B. logical data manager
- C. storage network manager
- D. network management system

Answer: A

---

**QUESTION 92:**

Which is a full duplex disk interface?

- A. Iscsi
- B. Parallel ATA
- C. SATA (Serial ATA)
- D. SAS (Serial Attached SCSI)

Answer: D

---

**QUESTION 93:**

Which SMI-S term provides information about physical and logical SAN entities found, often dynamically, within the management domain?

- A. extension
- B. discovery
- C. enumeration
- D. intrinsic-method

Answer: B

---

**QUESTION 94:**

Which three components of the SNIA Shared Storage Model are members of the "Block Aggregation" layer? (choose three)

- A. host
- B. device
- C. network
- D. database
- E. file system

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Answer: A,D,E

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**QUESTION 95:**

Which TCP/IP based protocol is used for connections between servers and IP-based storage devices?

- A. FCIP
- B. ISCSI
- C. IFCP
- D. ISNS

Answer: B

---

**QUESTION 96:**

Certkiller .com needs to backup its data while keeping the data online. Cost and application performance are both important. The data can be backed up to tape between 12.00 AM and 6.00AM when the applications are not write intensive.

Which solution is the most appropriate?

- A. Create a split mirror snapshot, mount the snapshot to the same host, back the snapshot up to tape.
- B. Create a split mirror snapshot, mount the snapshot to a different host, back the snapshot up to tape.
- C. Create a copy on write snapshot, mount the snapshot to the same host, back the snapshot up to tape.
- D. Create a copy on write snapshot, mount the snapshot to a different host, back the snapshot up to tape.

Answer: D

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**QUESTION 97:**

Which two are choices of physical transports for storage over IP? (CHOOSE TWO)

- A. FCIP
- B. ICUP
- C. IFCP
- D. ISNS

Answer: A,C

---

**QUESTION 98:**

Which storage administration policy association is appropriate in an SMI-S enabled environment if an online application will be supported by a large database?

- A. an OLTP policy with the database at the policy client
- B. an OLAP policy with the database at the policy client

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- C. an OLTP policy with the database at the policy provider
- D. an OLAP policy with the database at the policy provider

Answer: A

---

**QUESTION 99:**

Where is the virtualization performed that masks physical data layout?

- A. network
- B. FC switch
- C. Host/server
- D. Storage device

Answer: D

---

**QUESTION 100:**

Which IP Storage solution supports presentation of storage to an array of blade servers that require remote boot, high storage availability, and minimal peak I/D requirements?

- A. iFCP
- B. FCIP
- C. ISNS
- D. iSCSI

Answer: D

---

**QUESTION 101:**

What are the distance limitations of parallel SCSI?

- A. 3 meters to 1.5 KM
- B. 25 meters to 1.5 KM
- C. 1.5 meters to 25 meters
- D. 1.5 meters to 12.5 meters

Answer: C

---

**QUESTION 102:**

What are two advantages of IP storage networking? (choose two)

- A. lower CPU overhead
- B. lower cost infrastructure
- C. greater security exposure

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D. can use existing network management tools

Answer: B,D

---

**QUESTION 103:**

When migrating from 1 Gb FC SAN to 2 Gb FC SAN which two statements are true? (choose two)

- A. 1 Gb and 2 Gb SAN devices are compatible.
- B. 1 Gb and 2 Gb SAN devices are not compatible.
- C. Maximum distance between server and switch is increased.
- D. Maximum distance between server and switch is decreased.

Answer: A,D

---

**QUESTION 104:**

You have been asked to restore a database for an audit from the backup dated 31 December 2001 to a spare machine.

Which two storage issues cause the most risk to a successful restore, given that you have enough storage assigned to the system? (choose two)

- A. storage assignment
- B. file system structure
- C. host LVM/LDM structure
- D. zoning and LUN masking

Answer: B,C

---

**QUESTION 105:**

Which device enables a Fiber Channel transport/connection from a source host, and SCSI transport/connection from a target device to communicate by mapping the Fiber Channel ID to a SCSI address?

- A. bridge
- B. switch
- C. director
- D. SCSI extender

Answer: A

---

**QUESTION 106:**

Which standard management agent resides in the file/record layer of the SNIA storage object model?

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- A. host
- B. device
- C. network
- D. database

Answer: D

---

**QUESTION 107:**

Which storage management component has the ability to display SAN fabric topology and perform zoning operations, but provides only minimal event information?

- A. logical data manager
- B. Fabric directory server
- C. Storage network manager
- D. Enterprise management system

Answer: C

---

**QUESTION 108:**

What is the transfer communication method used in SCSI interfaces?

- A. duplex
- B. simples
- C. full duplex
- D. half duplex

Answer: D

---

**QUESTION 109:**

Which tier of storage device and associated cost would store Certkiller .com's mission critical online data?

- A. tier two, lower cost per terabyte
- B. tier one, lower cost per terabyte
- C. tier two, higher cost per terabyte
- D. tier one, higher cost per terabyte

Answer: D

---

**QUESTION 110:**

Which classification of storage virtualization is implemented through fireware in the storage array?

- A. disk virtualization

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- B. block virtualization
- C. filter/record virtualization
- D. file system virtualization

Answer: A

---

**QUESTION 111:**

Which two describe the SNIA SMI-S interoperability Conformance Test Program (ICTP)? (Choose two)

- A. audits vendor test suit results to achieve ICTP logo
- B. tests any device for compliance to one or more SMI profiles
- C. delivers "plug fest" to validate compliance and achieve ICTP logo
- D. provides "validation" of storage vendor implementation of an SMI-S release

Answer: B,D

---

**QUESTION 112:**

Which three Fiber Channel components have World Wide Names? (Choose three)

- A. HBA
- B. Storage device port
- C. Physical port in a hub
- D. Physical port in a switch

Answer: A,B,D

---

**QUESTION 113:**

Which two components are required in a specialized NAS operating system? (choose two)

- A. user processes
- B. network interface
- C. storage management
- D. application scheduling

Answer: B,C

---

**QUESTION 114:**

Certkiller .com has implemented a high availability tape backup process that uses snapshots. The snapshots are backed up to tape. When checking the backup, the data is found to be corrupt. Which two options will fix this problem? (choose two)

- A. quiesce the application before backing up the data

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- B. unmount the file system before backing up the data
- C. quiesce the application before creating the snapshot
- D. unmount the file system before creating the snapshot

Answer: B,D

---

**QUESTION 115:**

Which storage virtualization management technique uses the same path for both data and control?

- A. Isas APPLICATION
- B. IN-BAND APPLIANCE
- C. STORAGE APPLIANCE
- D. OUT-OF-BAND APPLIANCE

Answer: B

---

**QUESTION 116:**

Which three are advantages of using a SAN in a campus environment? (choose three)

- A. Consolidate storage in a data center
- B. Increase storage resource utilization
- C. Decrease network traffic due to backup
- D. Decrease network traffic due to storage decentralization

Answer: A,B,C

---

**QUESTION 117:**

Which drive type is considered a "dumb" drive in which the controller carries all the intelligence?

- A. ATA
- B. SCSI
- C. SATA
- D. Parallel ATA

Answer: B

---

**QUESTION 118:**

Which characteristic differentiates an IP Storage adapter from a traditional Network Interface card (NIC)?

- A. link aggregation
- B. 2 Gb/s data rate

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- C. larger frame size
- D. TCP/IP segmentation offload

Answer: D