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Vendor: EMC

Exam Code: E20-001

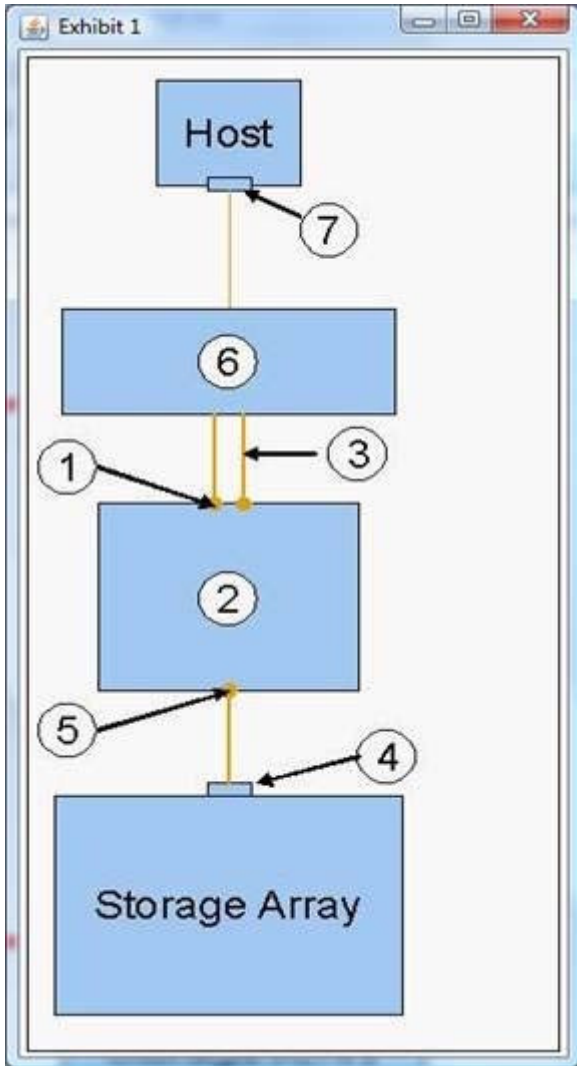
Exam Name: Storage Technology Foundations

Version: Demo

QUESTION 1

Exhibit:

You work as a network administrator at Certpaper.com. You study the exhibit carefully. Identify the HBA and F port in the SAN Core/Edge exhibit.



- A. 7 and 1
- B. 7 and 5
- C. 4 and 5
- D. 6 and 3

Correct Answer: B

QUESTION 2

Why is tracking changes to the source and target devices recommended after creation of point in time replica?

- A. Reduces the Recovery Time Objective for restart operations from the target
- B. Speeds up the re-synchronization of the source and target
- C. Speeds up the initial synchronization of the source and target
- D. Reduces the Recovery Point Objective for restart operations from the target

Correct Answer: B

QUESTION 3

What does a cache dirty bit flag?

- A. Changed data not yet written to disk
- B. Data read from disk but not accessed by the host
- C. Changed data written to disk
- D. Data requested by host but not yet fetched

Correct Answer: A

QUESTION 4

Which remote replication solution has the lowest bandwidth requirement?

- A. Log shipping over IP networks
- B. Array based synchronous replication
- C. Asynchronous ordered writes
- D. Host based LVM Mirroring

Correct Answer: A

QUESTION 5

An application uses ten 9 GB Devices. A pointer based replica of the application is required every 4 hours. Each replica will be kept for 24 hours. The data changes by 10% every 4 hours. How many replica devices are required?

- A. 10
- B. 90
- C. 6
- D. 60

Correct Answer: D

QUESTION 6

What is a remote replication solution on EMC Symmetrix Arrays?

- A. SnapView
- B. EMC TimeFinder/Mirror
- C. SRDF/S
- D. MirrorView/A

Correct Answer: C

QUESTION 7

What is a benefit of a NAS Solution?

- A. Introduces block level I/O to the networked environment
- B. Enables the ability to share data across platforms
- C. Improved network bandwidth
- D. Improved network performance

Correct Answer: B

QUESTION 8

What is a logical component of a storage environment?

- A. Storage array
- B. Bus

- C. Memory
- D. Application

Correct Answer: D

QUESTION 9

Which statement describes the iSCSI protocol?

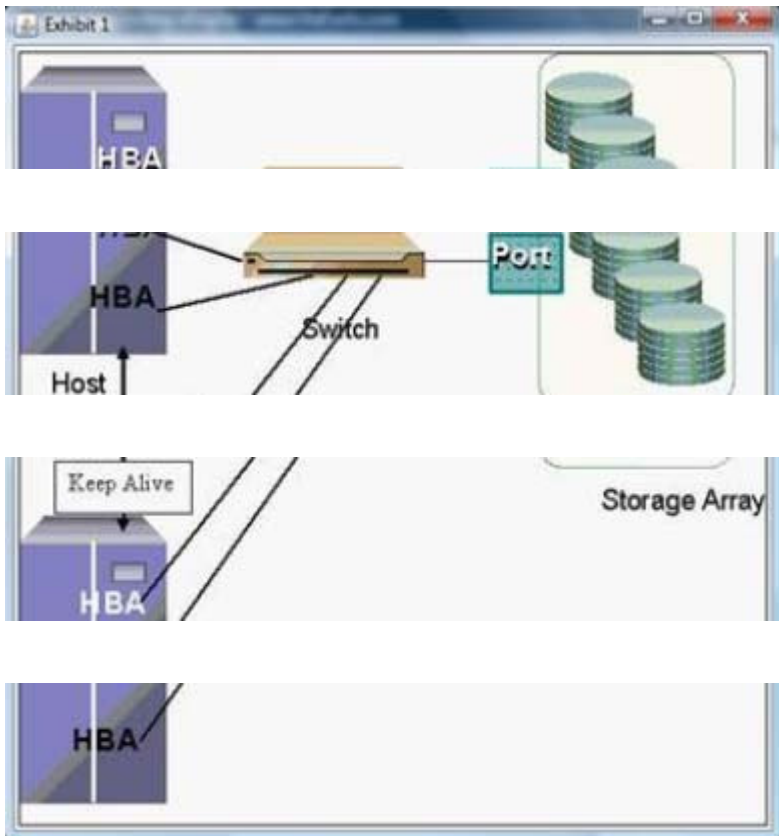
- A. SCSI over ATA
- B. SCSI over IP
- C. IP over SCSI
- D. ATA over SCSI

Correct Answer: B

QUESTION 10

Exhibit:

You work as a network administrator at Certpaper.com. You study the exhibit carefully. In the environment shown in the exhibit, the storage devices are RAID-1 protected. Which two components are Single Points of Failure?



- A. Switch and Storage Array Port
- B. Host and Switch
- C. Storage Array Port and Storage Device
- D. HBA and Host

Correct Answer: A

QUESTION 11

What is the basic unit of storage in a CAS implementation?

- A. Frame

- B. Object
- C. File
- D. Block

Correct Answer: B

QUESTION 12

What is a SAN availability management task?

- A. Configuring redundant fabrics
- B. Replicating logical volumes
- C. LUN masking
- D. Monitoring port status

Correct Answer: A

QUESTION 13

What is a disadvantage of a Fibre Channel hub when compared to a Fibre Channel switch?

- A. Limited performance
- B. Larger footprint
- C. Higher cost
- D. Limited interoperability

Correct Answer: A

QUESTION 14

When is it necessary to hold application I/O to ensure a consistent copy?

- A. Just before creating a point in time replica
- B. Only when an application spans multiple storage arrays
- C. Just after creating a point in time replica
- D. Only when an application spans multiple hosts

Correct Answer: A

QUESTION 15

Which component of EMC Symmetric array provides physical connectivity to hosts?

- A. Back-end adapter
- B. Front-end adapter
- C. Cache
- D. Storage Processor

Correct Answer: B

QUESTION 16

Which service is used by iSCSI initiators to discover targets?

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

Correct Answer: C

QUESTION 17

Data is being replicated from site A to site B using disk buffering to create extended distance consistent point in time copies every hour. In the event of a site failure at A, what is the maximum amount of data that will be missing at site B?

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

Correct Answer: A

QUESTION 18

What is the CLARiiON software component that controls storage visibility to hosts?

- A. Access Logix
- B. SnapView
- C. FLARE
- D. MirrorView

Correct Answer: A

QUESTION 19

What is the process that writes physical address information to a disk?

- A. Partitioning
- B. Formatting
- C. Concatenating
- D. Striping

Correct Answer: B

QUESTION 20

Which topology increases connectivity within the SAN while conserving overall port utilization?

- A. Partial Mesh
- B. Arbitrated Loop
- C. Core Edge
- D. Full Mesh

Correct Answer: C

QUESTION 21

Which tool can be used to view the logical and physical topology of an MDS SAN?

- A. Switch Manager
- B. Device Manager
- C. EWS
- D. Fabric Manager

Correct Answer: D

QUESTION 22

What describes External DAS?

- A. Host provided content addressed objects
- B. Host provided data addressing
- C. Array provided global access volumes

D. Array provided device management

Correct Answer: D

QUESTION 23

What are the five core elements of the data center infrastructure?

- A. Applications, Databases, JBOD, Networks, Storage Arrays
- B. Applications, Databases, Servers/Operating Systems, SAN, JBOD
- C. Applications, Databases, Servers/Operating Systems, DAS, NAS
- D. Applications, Databases, Servers/Operating Systems, Networks, Storage Arrays

Correct Answer: D

QUESTION 24

Which technology supports high availability of data?

- A. Clustering
- B. Flushing
- C. Journaling
- D. Caching

Correct Answer: A

QUESTION 25

Which task is an example of monitoring the health of a data center object?

- A. Viewing rates of data transmission of all disks
- B. Detecting when a file system has reached critical utilization
- C. Examining the operational status of a device port
- D. Listing the servers attached to a particular storage array

Correct Answer: C

QUESTION 26

A company has two SAN islands approximately one mile apart. The company wants to link both sites over its public WAN connection. The fabrics must remain separate but allow device access from either site. Which protocol is recommended to connect the sites?

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

Correct Answer: C

QUESTION 27

What are the three key data center management activities that are interdependent?

- A. Manageability, Integrity, Cost
- B. Provisioning, Monitoring, Reporting
- C. Installation, Configuration, Problem Solving
- D. Scalability, Accessibility, Security

Correct Answer: B

QUESTION 28

A Copy on First Access replica has been created. The source devices are being used for production

operations. When is data copied from the source to the target?

- A. A read or write issued for the first time to a location on the source
- B. A write issued for the first time to a location on the source
- C. All I/Os issued to a location on the source
- D. A read issued for the first time from a location on the source

Correct Answer: B

QUESTION 29

Which statement describes logical volumes?

- A. May consist of interleaved physical disks
- B. May be a partition of a larger physical disk
- C. May be presented to a host as several larger physical disks
- D. May consist of several file systems

Correct Answer: B

QUESTION 30

What is a physical component of a storage environment?

- A. Bus
- B. Application
- C. Operating system
- D. Protocol

Correct Answer: A

QUESTION 31

What does partitioning do to a physical disk?

- A. Mirrors the disk
- B. Presents the disk as one logical volume
- C. Concatenates the disk together with other disks
- D. Divides a disk into logical containers

Correct Answer: D

QUESTION 32

A disk drive has a rotational speed of 100 revolutions per second. What is the average rotational latency?

- A. 15 ms
- B. 10 ms
- C. 3 ms
- D. 5 ms

Correct Answer: D

QUESTION 33

What is a standard layer that resides between managed objects and management software?

- A. HDA
- B. FC-SW
- C. CIFS
- D. SMI-S

Correct Answer: D

QUESTION 34

What is a role of the backup client in a backup and recovery environment?

- A. Maintain the backup catalog
- B. Write the data set to the backup device
- C. Gather data for backup
- D. Retrieve metadata from the storage node

Correct Answer: C

QUESTION 35

What channel is valid for connecting storage arrays directly to IP networks for remote replication?

- A. ESCON
- B. Gigabit Ethernet
- C. FC
- D. SCSI

Correct Answer: B

QUESTION 36

What is a disadvantage of JBOD versus disk arrays?

- A. Access is slow
- B. Data is unprotected
- C. Disks cannot be independently addressed by the server
- D. Storage capacity is lower

Correct Answer: B

QUESTION 37

An application uses a file system. A local replica of the application is required. Business requirements demand that the application be available on a 24x7 basis. Which operation should be performed for a consistent file system replica?

- A. Flush file system buffers before the creation the replica
- B. Stop the application prior to the creation of the replica
- C. Unmount the file system prior to the creation of the replica
- D. Flush file system buffers after the creation of the replica

Correct Answer: A

QUESTION 38

What do you monitor as part of server performance?

- A. Power supply status
- B. Memory utilization
- C. HBA status
- D. File system utilization

Correct Answer: B

QUESTION 39

Which protocol is used by a host to access block level storage over IP?

- A. iSCSI

- B. CIFS
- C. Infiniband
- D. NFS

Correct Answer: A

QUESTION 40

Which statement applies to NAS?

- A. Specialized server for block level data access
- B. General purpose server for block level access
- C. Specialized server for content addressed data
- D. General purpose server for content addressed data

Correct Answer: C

QUESTION 41

What are three requirements of storage systems?

- A. Availability, Capacity, Scalability
- B. Performance, Utilization, Data Integrity
- C. Compliance, Capacity, Scalability
- D. Maintenance, Security, Utilization

Correct Answer: A

QUESTION 42

What are three advantages of a disk array compared with JBOD?

- A. Multiple host I/O channels, single server connection, data protection
- B. Higher speed interconnects, data protection, multiple host I/O channels
- C. Less expensive, single server connection, data protection
- D. Data protection, less expensive, multiple host I/O channels

Correct Answer: B

QUESTION 43

What is a fundamental characteristic of a CAS implementation?

- A. Object name resolution using DNS
- B. Globally unique identifier for every data object
- C. Distributed object management
- D. Object transport via Fibre Channel

Correct Answer: B

QUESTION 44

Which local replication technology does EMC TimeFinder/Mirror implement?

- A. Copy on First Access
- B. Pointer based
- C. Full Volume Mirroring
- D. Copy on First Write

Correct Answer: C

QUESTION 45

If site A is 1000 miles (1600 km) away from site B, which method is NOT suitable for remotely replicating data from A to B?

- A. Extended distance consistent PIT
- B. Log shipping
- C. Synchronous
- D. Asynchronous

Correct Answer: C

QUESTION 46

What is a concern of NAS management?

- A. SCSI over IP
- B. Managing the system to integrate multiple block level access ports to the NAS devices
- C. Managing the system to prevent multiple client access to visible volumes
- D. Configuring the system to meet limited interconnectivity options
- E. Configuring the system to meet application performance requirements

Correct Answer: E

QUESTION 47

What do you monitor as part of a SAN health check?

- A. Fan-in/Fan-out ratio
- B. Port status change
- C. Disk status
- D. ISL utilization

Correct Answer: B

QUESTION 48

What is a role of the backup server in a backup and recovery environment?

- A. Writes the data set to the backup device
- B. Gathers data for backup
- C. Retrieves metadata from the storage node
- D. Maintains the backup catalog

Correct Answer: D

QUESTION 49

Which data access pattern will have its performance affected most by slow seek times?

- A. Sequential, large writes
- B. Sequential, small reads
- C. Random, small writes
- D. Random, large reads

Correct Answer: C

QUESTION 50

Which Connectrix switches can be managed using WebTools

- A. M-Series
- B. B-series
- C. MDS-Series

D. CX-Series

Correct Answer: B

QUESTION 51

You have five disks in a RAID 0 set, and have assigned a stripe depth of 128 blocks (64 kB). What is the STRIPE size (kB)?

- A. 320
- B. 128
- C. 256
- D. 64

Correct Answer: A

QUESTION 52

Why would an iSCSI solution be implemented?

- A. Block storage over IP is much faster than FC
- B. All storage arrays supply Gage ports
- C. Leverages existing IP network infrastructure
- D. iSCSI HBAs are inexpensive

Correct Answer: A

QUESTION 53

What is a disadvantage of storage array based local replication?

- A. Requires an alternate host for Business Continuity operations
- B. Replication is performed at the array device level
- C. Cannot span storage arrays
- D. Uses host CPU resources

Correct Answer: C

QUESTION 54

Which network technology uses time division multiplexing for sending data from multiple subscribers as an optical signal?

- A. SONET
- B. T3
- C. Gigabit Ethernet
- D. DWDM

Correct Answer: A

QUESTION 55

What does partitioning do?

- A. Divides a logical disk into physical zones
- B. Divides a logical disk into physical volumes
- C. Divides a physical disk into logical volumes
- D. Divides a physical disk into logical zones

Correct Answer: C

QUESTION 56

Which storage method will make data most accessible?

- A. Optical disk
- B. Magnetic Disk
- C. Jukebox
- D. Tape

Correct Answer: B

QUESTION 57

Which task is an example of monitoring the utilization of a data center object?

- A. Determining which device ports have the highest rates of errors
- B. Viewing a list of file systems that are nearly full
- C. Monitoring the status of processes on the host
- D. Listing the number of disks in all storage arrays

Correct Answer: B

QUESTION 58

Which event is known as a head crash?

- A. Two R/W heads have touched each other
- B. A read head and a write head have touched each other
- C. A R/W head has touched the disk data area
- D. Two adjacent disk platters have touched each other
- E. SAN

Correct Answer: C

QUESTION 59

What is a disadvantage of array based remote replication?

- A. Uses host CPU resources
- B. Cannot manage log shipping
- C. Limited to specific databases
- D. Limited to specific operating systems

Correct Answer: B

QUESTION 60

What is a valid member of a zone in a SAN?

- A. The IP address of a host
- B. A Domain ID
- C. The serial number of a storage array
- D. A HBA WWPN

Correct Answer: D

QUESTION 61

What failure does RAID technology guard against?

- A. Host bus Adapter failures
- B. Host failures
- C. Switch Failure
- D. Disk Failure

Correct Answer: D

QUESTION 62

What is an advantage of using tape over disk as the backup destination device?

- A. Faster restore time
- B. Random access
- C. RAID Protection
- D. Portability

Correct Answer: D

QUESTION 63

Which sequence of activities describes a read cache hit?

1. Read data is sent to the host
2. Host sends read request to storage system
3. Cache is searched, and data is found

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

Correct Answer: A

QUESTION 64

What is the process of dividing a disk into logical containers?

- A. Zoned-bit recording
- B. Partitioning
- C. Sectoring
- D. Logical Block Addressing

Correct Answer: B

QUESTION 65

Which statement describes Content Address (CA)?

- A. An identifier that uniquely addresses the content, quality, condition and other characteristics of data
- B. A set of functions that enable communication between applications
- C. An identifier that uniquely addresses the content of a file and its location
- D. An identifier that uniquely addresses the content of a file and not its location

Correct Answer: D

QUESTION 66

Which component of EMC Control Center collects information about Managed Objects?

- A. Server
- B. Repository
- C. Store
- D. Agent

Correct Answer: D

QUESTION 67

What is a disadvantage of multi-mode fibre relative to single-mode fibre?

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