

**Exam : EMC E20-040**

**Title : EMC ® Technology  
Foundations**

**Version : V6.23**

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1. When changes are made to a SnapView source LUN, where is the original data saved?

- A.Cache memory
- B.Clone Private LUN
- C.PSM
- D.Reserved LUN pool

**Answer: D**

2. In a CLARiiON array, which clone state would prevent a clone from being removed from a clone group?

- A.Consistent
- B.Fractured
- C.Promoted
- D.Synchronizing

**Answer: D**

3. How many bi-directional mirror relationships are allowed per CLARiiON array?

- A.1
- B.2
- C.4
- D.8

**Answer: C**

4. Which mechanism is used shorten the synchronization process after the link goes down between the primary and secondary mirrors?

- A.Fracture log
- B.Persistent Storage Manager
- C.Primary arrays write cache
- D.Reserved LUN pool

**Answer: A**

5. After Rainfinity completes a directory or share move, clients can access data through a logical view without having to remap to the new destination. What is the underlying physical location called that maps this logical view?

- A.Data Mobility
- B.Global Namespace
- C.Proxy Service
- D.VLAN Change

**Answer: B**

6. In a NetWorker environment, which EMC Disk Library feature is used to export virtual tapes to physical tapes, while preventing blind spots?

- A.Auto Archive
- B.Embedded Storage Node
- C.Embedded Media Server
- D.Remote Copy

**Answer: B**

7. In a CLARiiON array, how is I/O handled when a LUN is expanding?

- A.Continues to all component LUNs
- B.Continues to base LUN only
- C.Halted during expansion
- D.Halted to the base LUN only

**Answer: B**

8. In a CLARiiON array, what is a characteristic of a metaLUN?

- A.Can be only expanded one time
- B.Can be used with SnapView and MirrorView
- C.Cannot be added to a storage group
- D.Supported on FC and CX series arrays

**Answer: B**

9. PowerPath is connected to Storage Processor A and Storage Processor B. What action does PowerPath take when one path to Storage Processor A fails?

- A.Redirects the I/O load across the remaining three paths to the array
- B.Redirects the I/O through the two paths to Storage Processor B
- C.Trespasses the LUN to Storage Processor B and uses the two paths through this Storage Processor
- D.Uses the one remaining path through Storage Processor A

**Answer: D**

10. Which SAN topology requires a direct link from any switch to every other switch in the fabric?

- A.Compound core-edge
- B.Full mesh
- C.Partial mesh
- D.Simple core-edge

**Answer: B**

11. Which operation must an NFS client perform to access a Celerra advertised connection point?

- A.Export
- B.Map
- C.Mount
- D.Share

**Answer: C**

12. What is a characteristic of a Content Address in Centera?

- A.Administrator generated
- B.File system based
- C.Inherently stable
- D.Location-dependent

**Answer: C**

13. After a split operation has occurred, where is the information maintained for changes to the standard volume and BCV?

- A.PSM LUN
- B.track tables
- C.vault
- D.VDEV tables

**Answer: B**

14. Which Symmetrix implements a unified director feature?

- A.DMX1000
- B.DMX2000
- C.DMX-3
- D.Symmetrix 8000

**Answer: C**

15. Which DMX is optimized for the most efficient power and cooling?

- A.DMX-2
- B.DMX-3 950
- C.DMX3000
- D.DMX800

**Answer: B**

16. What is the cause of the delay in a DMX-3 read miss?

- A.Host missed the time to get data
- B.Information is missing from the files
- C.Information left cache before it was read
- D.Information must be read from disk

**Answer: D**

17. Which are the characteristics of Symmetrix Enginuity?

- A.Comprehensive Symmetrix management and data security
- B.Continuous availability, data integrity, built-in security features

- C.Enabled consistency and continuous availability
- D.Symmetrix-based feature portability and enabled consistency

**Answer: B**

18. Which type of protection is only used for mainframes?

- A.RAID 1
- B.RAID 5
- C.RAID 10
- D.Parity RAID

**Answer: C**

19. What is a DMX-3 Direct Matrix Interconnect specification?

- A.64 2 Gb/s Fibre Channel paths
- B.128 direct paths from directors and memory
- C.Four or eight processors per director
- D.Full component-level redundancy with hot-swappable replacements

**Answer: B**

20. How are DMX-2 global cache director boards divided?

- A.Boards are divided into four addressable memory chips
- B.Boards are divided into four addressable regions comprised of one memory chip
- C.Boards consist of four memory chips, each divided into eight regions
- D.Boards consist of memory chips and are divided into four addressable regions

**Answer: D**

21. Which EMC software reduces the complexities associated with a command line interface?

- A.Host Component
- B.StorageScope
- C.Symmetrix Management Console
- D.Symmetrix Performance Manager

**Answer: C**

22. How does Symmetrix Optimizer automatically achieve good DMX performance?

- A.Analyzes activity to identify volumes for swaps
- B.Analyzes and balances the front-end activity
- C.Reduces hot spots in Disk Directors
- D.Spreads workload among disks

**Answer: A**

23. What is the primary use of StorageScope in the DMX arrays?

- A.Complete storage view

- B.Performance management
- C.Storage monitoring and provisioning
- D.Volume management

**Answer: C**

24. What is an information availability business benefit of DMX?

- A.Achieves good array performance
- B.Greatly reduces the cost of power consumption
- C.Provides multiple copies of information
- D.Reduce the risks to the business

**Answer: D**

25. Which business benefit uses Symmetrix Service Credential?

- A.Advanced recovery and failover
- B.Database safekeeping
- C.Recovery-point objectives
- D.Symmetrix security

**Answer: D**

26. What process makes a snapshot inaccessible to the backup host?

- A.Activation
- B.De-activation
- C.Fracturing
- D.Synchronizing

**Answer: B**

27. How many SnapView sessions are allowed per source LUN?

- A.4
- B.6
- C.8
- D.10

**Answer: C**

28. Which applies to a SnapView source LUN when a reverse synchronization is in progress?

- A.Accepts all incoming I/Os
- B.Becomes read only
- C.Rejects all incoming I/Os
- D.Stays off-line

**Answer: A**

29. During synchronization, how does a clone handle incoming host I/O?

- A.Accepts all I/Os
- B.Accepts reads only
- C.Accepts write only
- D.Rejects all incoming I/Os

**Answer: D**

30. In a CLARiiON array, at which point does a SnapView snapshot appear on-line to the secondary host?

- A.once the LUN is fractured
- B.once the session is activated
- C.once the source LUN is chosen
- D.when the session gets created

**Answer: B**

31. Which CLARiiON device requires only a fraction of the source disk space?

- A.Clones
- B.metaLUNs
- C.SAN Copy
- D.Snapshots

**Answer: D**

32. In a CLARiiON array, which state must the SnapView snapshot device be in for secondary host access?

- A.activated
- B.fractured
- C.split
- D.synchronized

**Answer: A**

33. Which CLARiiON feature provides a full point-in-time copy of a production LUN?

- A.Clone
- B.MetaLUN
- C.reserved LUN pool
- D.Snapshot

**Answer: A**

34. Which CLARiiON LUN is used by a snapshot to create a point-in-time copy?

- A.Backup
- B.Primary
- C.Secondary
- D.Source

**Answer: D**

35. In a CLARiiON array, what is the chunk size at which the SnapView copy-on-first-write process saves original data?

- A.32KB
- B.64KB
- C.128KB
- D.64MB

**Answer: B**

36. In a CLARiiON array, which action makes a snapshot visible to the secondary host?

- A.Activation
- B.Copy on first write
- C.Mounting
- D.Starting a session

**Answer: A**

37. In a CLARiiON array, how many SnapView snapshots can be created on a source LUN?

- A.6
- B.8
- C.12
- D.16

**Answer: B**

38. In a CLARiiON array, which statement applies to SnapView snapshots?

- A.Allows you to have a full copy of your source data
- B.Creates a remote copy
- C.Enables parallel information access
- D.Improves performance

**Answer: C**

39. Which SRDF topology supports unlimited distance between arrays?

- A.DWDM
- B.MAN
- C.SAN
- D.WAN

**Answer: D**

40. Select the exhibit.

Missing the Exhibit

Which type of implementation does this exhibit show?

- A.Extended distance

- B.FarPoint
- C.Metropolitan Area Network
- D.SRDF/AR

**Answer: C**

41. Which SRDF software can be managed in a Mainframe?

- A.EMC ControlCenter
- B.Mainframe Manager
- C.SRDF Host Component
- D.Symmetrix Management Console

**Answer: C**

42. Which SRDF software has a Point-and-Click approach?

- A.EMC ControlCenter
- B.RDF Manager
- C.SRDF Host component
- D.SRDF/Automated Availability Manager

**Answer: A**

43. What is a business benefit of SRDF?

- A.Lowers the cost of data protection
- B.Protects against local and regional site disruptions
- C.Provides instant data recovery
- D.Provides multiple local copies of data

**Answer: B**

44. What are the three SRDF base replication solutions?

- A.SRDF/FA, SRDF/A, and SRDF/S
- B.SRDF/RA, Adaptive Copy, and Asynchronous
- C.SRDF/RA, DRU, and SRDF/A
- D.SRDF/S, SRDF/A, and SRDF/DM

**Answer: D**

45. In a CLARiiON array, what size clone should be created for a source LUN of 25 GB?

- A.1-1/2 times larger than the source
- B.25GB
- C.25GB or larger
- D.50GB

**Answer: B**

46. In a CLARiiON array, what does clone reverse-synchronization overwrite?

- A.the clone with data from the Fracture Log
- B.the clone with data from the source
- C.the source with data from the clone
- D.the source with data from the write intent log

Answer: C

47. In a CLARiiON array, which statement applies to production host access during a clone synchronization?

- A.Production host access is allowed to the source but not the clone
- B.Production host access is denied to the source and clone
- C.Secondary host access is allowed to the source, not the clone
- D.Secondary host access to allowed to the clone but not the source

**Answer: A**

48. In a CLARiiON array, which feature makes the source LUN seem identical to the clone during a reverse-synchronization?

- A.Instant restore
- B.Mirroring
- C.Protected restore
- D.Roll Back

**Answer: A**

49. In a CLARiiON array, what is the minimum amount of disk space required when creating clone private LUNs?

- A.16MB
- B.32MB
- C.64MB
- D.128MB

**Answer: D**

50. In a CLARiiON array, what is the state of clone group members after completing a reverse synchronization, with protected restore enabled?

- A.All members are available for host I/O
- B.All members are fractured
- C.All members are in synchronized state
- D.The clone is available for I/O; the source remains fractured

**Answer: B**

51. In a CLARiiON array, what must be done to allow host access to a clone following synchronization?

- A.Host must be rebooted

- B. Must change access permissions on the clone
- C. Must manually fracture the clone
- D. Nothing; the clone is fractured automatically

**Answer: C**

52. In a CLARiiON array, what happens to the data after removing a clone from a clone group?

- A. Destroyed on both the source and clone
- B. Destroyed on the clone but not the source
- C. Remains on the clone but not the source
- D. Remains the same on the source and clone

**Answer: D**

53. In a CLARiiON array, what is a characteristic of a reserved LUN pool LUN?

- A. Cannot belong to a storage group
- B. Must be created using RAID 1/0 LUNs
- C. Must be created using RAID 5 LUNs
- D. Once created it cannot be expanded

**Answer: A**

54. In a CLARiiON array, which access permission applies to a SnapView snapshot when mounted on a secondary host?

- A. Read only
- B. Write only
- C. Read/write
- D. No access

**Answer: C**

55. In a CLARiiON array, what describes the access attributes of a Snapshot?

- A. Production host has access to both the snapshot and the source LUN at once
- B. Secondary hosts have access to the source LUN and snapshot
- C. Snapshots are accessed from the production host only
- D. Snapshots are available to the secondary host only

**Answer: D**

56. In a CLARiiON array, what operation must be performed to fracture a set of clones from different clone groups simultaneously?

- A. Admin fracture
- B. Consistent fracture
- C. Group fracture
- D. Synchronized fracture

**Answer: B**

57. In a CLARiiON array, which statement applies when using consistent splits of clones?

- A.All members must be from different clone groups
- B.All members must be in the same clone group
- C.Failures will not affect all clones members
- D.Members can be from two different CLARiiONs

**Answer: A**

58. Which CLARiiON mirroring feature allows a single array to synchronously mirror to two target arrays?

- A.Active
- B.Concurrent
- C.Consistent
- D.Parallel

**Answer: B**

59. Which CLARiiON feature allows a group of LUNs to be treated as a single entity and managed as a group?

- A.Cluster Groups
- B.Consistency Groups
- C.Storage Groups
- D.Synchronous Groups

**Answer: B**

60. Which CLARiiON replication software support consistency groups?

- A.MirrorView/A and MirrorView/S
- B.MirrorView/A and SAN Copy/E
- C.SAN Copy and SAN Copy/E
- D.SnapView snapshots and MirrorView/S

**Answer: A**

61. On which array(s) does MirrorView software need to be loaded in order to use MirrorView?

- A.Primary host only
- B.Primary and secondary arrays
- C.Secondary host only
- D.Secondary array only

**Answer: B**

62. Which statement applies to MirrorView/A?

- A.Requires the reserved LUN pool on the primary array only
- B.Requires the reserved LUN pool on both the primary and secondary arrays

- C.Requires the write intent log on both the primary and secondary arrays
- D.Requires the write intent on the primary array

**Answer: B**

63. Which remote mirror function allows synchronization to continue after a primary mirror failure

- A.attention
- B.checkpoint
- C.continue
- D.resynchronization

**Answer: B**

64. What is a characteristic of MirrorView?

- A.MirrorView software must be loaded on the primary array only
- B.Secondary LUN is not accessible to the host
- C.Secondary LUN must be the same RAID type as the primary LUN
- D.Secondary LUN must be the same size or larger than the primary

**Answer: B**

65. What protocol is used by the MirrorView Storage Processor ports to communicate with each other?

- A.CMI
- B.FCIP
- C.HTTP
- D.iSCSI

**Answer: A**

66. How many CLARiiON source arrays can be mirrored to a single target array?

- A.2
- B.4
- C.5
- D.6

**Answer: B**

67. What is the supported distance for MirrorView when used in a direct attach configuration with optical extenders?

- A.500m
- B.10km
- C.50km
- D.100km

**Answer: B**

68. What is the MirrorView term used to describe the process of copying data from the primary LUN to the

secondary LUN?

- A.Active mirroring
- B.Consistency
- C.Reverse synchronization
- D.Synchronization

**Answer: D**

69. In which state must the secondary mirror image be in order to be promoted?

- A.Consistent
- B.Inactive
- C.In-sync
- D.Out-of-Sync

**Answer: A**

70. What does MirrorView/S use to track changes?

- A.the fracture log on both the primary and secondary arrays
- B.the fracture log on the primary array
- C.the reserved LUN pool on both the primary and secondary arrays
- D.the reserved LUN pool on the primary array only

**Answer: B**

71. Which statement applies to MirrorView/A?

- A.Requires the reserved LUN pool on the primary array only
- B.Requires the reserved LUN pool on the secondary array only
- C.Requires a minimum of five Reserved LUNs on both primary and secondary arrays
- D.Requires the reserved LUN pool on both the primary and secondary arrays

**Answer: D**

72. How many bi-directional sessions can be active at one time using SAN Copy?

- A.2
- B.8
- C.16
- D.32

**Answer: C**

73. What is used to minimize the recovery time if the primary mirror fails?

- A.Clone private LUN
- B.Fracture log
- C.Reserved LUN pool
- D.Write intent log

**Answer: D**

74. Which CLARiiON software replication product can be used to move data within a CLARiiON?

- A.MirrorView
- B.MirrorView/A
- C.SAN Copy
- D.Snapshots

**Answer: C**

75. Which CLARiiON remote replication product overcomes the issues associated with network latency?

- A.MirrorView/A
- B.MirrorView/S
- C.SAN Copy
- D.SnapView Clones

**Answer: A**

76. Which CLARiiON remote replication product is most vulnerable or susceptible to network latency issues?

- A.MirrorView/A
- B.MirrorView/S
- C.SAN Copy
- D.SnapView snapshots

**Answer: B**

77. Which CLARiiON software product is used by MirrorView/A to create point-in-time, re-startable copies?

- A.Access Logix
- B.Analyzer
- C.SnapView
- D.NQM

**Answer: C**

78. Which replication software can be used to move data between heterogeneous storage arrays?

- A.MirrorView/A
- B.MirrorView/S
- C.SAN Copy
- D.SnapView

**Answer: C**

79. When using SAN Copy, what is a requirement of the target LUN?

- A.Must be owned by the same SP as the source
- B.Must be the exact size as the source LUN

- C. Must be the same RAID type as the source
- D. Must be the same size or larger than the source

**Answer: D**

80. What is the data transfer size used by incremental SAN Copy?

- A. 32KB
- B. 64KB
- C. 128KB
- D. 256KB

**Answer: B**

81. What is the minimum network link size supported by SAN Copy?

- A. OC1
- B. OC3
- C. T1
- D. T3

**Answer: C**

82. Which CLARiiON software manages SAN Copy operations?

- A. Fabric Manager
- B. Navisphere Manager
- C. SAN Copy Manager
- D. SAN Server Manager

**Answer: B**

83. Which CLARiiON replication software product should you consider for a data mobility solution?

- A. MirrorView/A
- B. MirrorView/S
- C. SAN Copy
- D. SnapView

**Answer: C**

84. Which EMC ControlCenter components are data collection policies specific to?

- A. Application Agents
- B. Stores
- C. Master Agents
- D. Managed Objects

**Answer: A**

85. What database is used by the EMC ControlCenter Infrastructure to store environmental data?

- A. Access

- B.DB2
- C.Oracle
- D.SQL

**Answer: C**

86. Which EMC ControlCenter component checks the ControlCenter repository for authentication information during console login?

- A.ECC Server
- B.Master Agent
- C.Store
- D.Web Server

**Answer: A**

87. Which EMC ControlCenter component is responsible for gathering file level data?

- A.Database agent
- B.Host agent
- C.Master Agent
- D.Store

**Answer: B**

88. Where do EMC ControlCenter Agents reside?

- A.Arrays
- B.Databases
- C.Hosts
- D.Switches

**Answer: C**

89. What is the main purpose of EMC ControlCenter Master Agents?

- A.Administration of other agents
- B.Host discovery
- C.Interacting with the Repository
- D.Pushing agent data to store

**Answer: A**

90. Which EMC ControlCenter license provides Storage Provisioning Services functionality?

- A.Automated Resource Manager
- B.SAN Manager
- C.StorageScope
- D.Symmetrix Manager

**Answer: A**

91. Which EMC ControlCenter Agent is used to manage Network Appliance hardware?

- A.Host
- B.Master
- C.NAS
- D.NetApps

**Answer: C**

92. Which EMC ControlCenter component can automatically migrate logical volumes in order to load balance disk access on a Symmetrix?

- A.Automated Resource Manager
- B.Migration Wizard
- C.Symmetrix Agent
- D.Symmetrix Optimizer

**Answer: D**

93. Which EMC ControlCenter component can determine how much storage allocated to a host is unused?

- A.Allocation Viewer
- B.Performance Manager
- C.Relationship View
- D.StorageScope

**Answer: D**

94. Where must the VMware agent be installed to monitor and manage a VMware ESX server?

- A.ESX Server
- B.Solaris Host
- C.VMware Guest OS
- D.Windows Host

**Answer: D**

95. Which EMC ControlCenter agent processes performance and configuration data for viewing in Performance Manager?

- A.Host Agent
- B.Oracle Agent
- C.SRM Server
- D.WLA Archiver

**Answer: D**

96. Where does the StorageScope repository get reporting data from?

- A.ControlCenter Agents
- B.ControlCenter Repository

C.ControlCenter Store

D.ETL

**Answer: B**

97. Which EMC ControlCenter application allocates storage to hosts or applications based on user-defined storage pools?

A.Automated Resource Manager

B.Performance Manager

C.Storage Provisioning Services

D.StorageScope

**Answer: C**

98. Which action must be performed to allow Rainfinity to bridge network segments in preparation for a data move?

A.Move Clients and Servers in-band

B.Move Clients and Servers out-of-band

C.Proxy all Clients and Server

D.Update the Global Namespace

**Answer: A**

99. What do both Rainfinity GFV-4 and GFV-5 hardware platforms have in common?

A.Intel Xeon Processors

B.Keyboard and Mouse

C.L2 Cache

D.Linux operating system

**Answer: D**

100. Which Invista software functionality allows administrators to move primary volumes between heterogeneous storage arrays while the application remains online?

A.Dynamic volume mobility

B.Enterprise management

C.Heterogeneous point-in-time copies

D.Network-based volume management

**Answer: A**

101. Which Invista hardware component stores information about the physical and virtual storage?

A.Control Path Cluster (CPC)

B.Data Path Controller (DPC)

C.IP Network

D.Production Hosts

**Answer: A**

102. What is a method of write I/O splitting in a RecoverPoint environment?

- A.Array Based Splitter Driver
- B.Continues Remote Replication
- C.Host Based Splitter Driver
- D.PowerPath Splitter Driver

**Answer: C**

103. Which RecoverPoint system feature manages copies of point-in-time data?

- A.clones or BCVs
- B.placeholders or backups
- C.snapshots or bookmarks
- D.TimeFinder copies

**Answer: C**

104. Which RecoverPoint component is used to determine replication direction and replication policies?

- A.Consistency Groups
- B.Journal Volumes
- C.Replication Pairs
- D.User Volumes

**Answer: A**

105. Which RecoverPoint component acknowledges writes back to the splitter, performs FC to IP conversion and completes data reduction and compression?

- A.RecoverPoint Appliance
- B.RecoverPoint Journal
- C.RecoverPoint Repository
- D.RecoverPoint SANTap

**Answer: A**

106. Which file system type does ESX server use by default?

- A.HPFS
- B.JFS
- C.VMFS-3
- D.VxFS

**Answer: C**

107. Which VMware component is used for configuring and managing ESX Servers and virtual machines?

- A.VI Client
- B.VirtualCenter Agents

- C.VirtualCenter Server
- D.VMware License Server

**Answer: A**

108. Which VMware component is responsible for the abstraction of the Intel i386 hardware layer?

- A.HAL
- B.Service Console
- C.Virtual Atomizer
- D.VMkernel

**Answer: D**

109. What is EMCs server virtualization product for the data center?

- A.Virtual Infrastructure 3
- B.VMware Ace
- C.VMware Server
- D.VMware Workstation

**Answer: A**

110. Which NetWorker host stores configuration and backup tracking information?

- A.Client
- B.Management Console
- C.Server
- D.Storage Node

**Answer: C**

111. Which NetWorker host controls backup devices and volumes?

- A.Client
- B.Management Console
- C.Server
- D.Storage Node

**Answer: D**

112. What does Avamar do first in the snapup process?

- A.Breaks file into chunks
- B.Checks if file has been modified
- C.Generates hashes
- D.Sends data to the server

**Answer: B**

113. Which level of Avamar fault tolerance provides protection against server failures?

- A.Checkpoints

- B.RAID
- C.RAIN
- D.Replication

**Answer: D**

114. Which level of Avamar fault tolerance provides protection against node failures?

- A.Checkpoints
- B.RAID
- C.RAIN
- D.Replication

**Answer: C**

115. What is the data path connection between an EMC Disk Library and an Open System host?

- A.LAN
- B.SAN
- C.SCSI
- D.LAN and SAN

**Answer: B**

116. Into which software can EMC Backup Advisor be integrated?

- A.Avamar
- B.EMC ControlCenter
- C.NetWorker Management Console
- D.VisualSRM

**Answer: C**

117. Which RepliStor activity occurs before replication can begin?

- A.Forwarding
- B.Mirroring
- C.Synchronizing
- D.Updating

**Answer: C**

118. Which DiskXtender process removes files from the extended drive, leaving a tag?

- A.Delete
- B.Fetch
- C.Move
- D.Purge

**Answer: D**

119. What is a feature of EmailXtender Archive Edition?

- A. Multiple cabinets and folders
- B. Retention periods
- C. Rules to exclude messages
- D. Scheduled message archiving

**Answer: D**

120. How many bytes per sector are contained on a formatted CLARiiON FC disk drive?

- A. 64
- B. 512
- C. 520
- D. 1024

**Answer: C**

121. Which front end port speeds are supported on a CX3 series array?

- A. 50Mb, 100Mb, 200Mb
- B. 200Mb, 400Mb, 600Mb
- C. 1Gb, 2Gb, 4Gb
- D. 4Gb, 6Gb, 10Gb

**Answer: C**

122. How many storage systems are configured in a cabinet containing two DPEs?

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

**Answer: B**

123. Which advantage does a SATA II disk drive have over a FC drive?

- A. better overall performance
- B. faster rotational speed
- C. faster seek times
- D. lower cost for backups

**Answer: D**

124. Which interface is used to mirror write cache on a CLARiiON?

- A. CMI
- B. PCI-M
- C. SCSI
- D. VME

**Answer: A**

125. Which statement describes the use of SATA II DAE3Ps and FC DAE3Ps in the same array?

- A.Can share the same array
- B.Cannot be configured in the same array
- C.Must contain the same size disk drives if configured in the array
- D.Must have disk drives configured as RAID 5 only if in the same array

**Answer: A**

126. Which CLARiiON CX series component monitors the FRUs within the DAE and reports status information back to the Storage Processors (SPs)?

- A.CMI
- B.LCC
- C.Midplane
- D.SPS

**Answer: B**

127. What is the name given to the "Base Software" that runs on the CLARiiON Storage Processor?

- A.Access Logix
- B.CLI
- C.Flare
- D.MirrorView

**Answer: C**

128. Which types of disk drives are supported on a CLARiiON CX3?

- A.Dual ported Fibre Channel and SATA II drives
- B.Dual ported SCSI and ATA drives
- C.Dual ported SCSI and Fibre Channel drives
- D.Fixed Block Architecture and CKD drives

**Answer: A**

129. What is the maximum number of Fibre Channel drives that can be inserted in a DPE3?

- A.10
- B.12
- C.14
- D.15

**Answer: D**

130. What is the maximum number of microprocessors on a CLARiiON Storage Processor?

- A.one
- B.two
- C.four

D.six

**Answer: B**

131. How is cache memory allocated in a CLARiiON CX3 series array?

A.pages

B.partition

C.segments

D.tracks

**Answer: A**

132. Which CLARiiON management option simplifies the process of creating RAID groups and allocating storage?

A.CLARiiON Configuration Builder

B.CLARiiON Configuration Manager

C.Navisphere Service Tool

D.Navisphere Taskbar Wizard

**Answer: D**

133. In a CLARiiON array, which statement applies to the destination LUN when using LUN migration?

A.Must be exactly the same size

B.Must be in a storage group

C.Must be the same RAID type

D.Must be the same size or larger

**Answer: D**

134. In a CLARiiON array, which numbers will be assigned to the next two LUNs if LUNs 0, 1, 2, 4, 5, 6, 10, and 11 are already bound?

A.3, 7

B.3, 12

C.7, 8

D.12, 13

**Answer: A**

135. Which CLARiiON GUI-based tool is used to present LUNs to hosts?

A.Navisphere Analyzer

B.Navisphere CLI

C.Navisphere Manager

D.Navisphere Quality of Service

**Answer: C**

136. After initial system configuration, how is CLARiiON write cache memory allocated?

- A. Dynamically adjusted based on SP workload
- B. Each SP is allocated 50% of total memory
- C. No default; manual configuration is needed
- D. The busier SP is allocated 75% of total memory

**Answer: C**

137. In a CLARiiON array, what is the default element size for a five disk RAID 5 group?

- A. 64 bytes
- B. 4KB
- C. 64KB
- D. 128KB

**Answer: C**

138. Which CLARiiON component is used for staging and prefetching data?

- A. nvram
- B. PSM
- C. read cache
- D. write cache

**Answer: C**

139. Which customer configurable software provides load balancing of host I/O to the CLARiiON array?

- A. Access Logix
- B. Diskpart
- C. lputil
- D. PowerPath

**Answer: D**

140. Which interface is used to mirror incoming writes on a CLARiiON CX3?

- A. 1st back end loop
- B. CLI
- C. CMI
- D. Ethernet

**Answer: C**

141. When is a write to the CLARiiON considered complete if write cache is enabled?

- A. After five sequential writes are received by the first SP
- B. After the write is cached in the receiving SPs memory
- C. After the write is committed to disk
- D. After the write is committed to the peer SPs cache memory

**Answer: D**

142. What name describes a group of sequential elements starting with the first disk in a RAID group and ending with the last, including any parity or mirrored elements?

- A.block
- B.element
- C.sector
- D.stripe

**Answer: D**

143. If a customer's I/O profile consists of sequential reads, which CLARiiON feature will improve performance?

- A.Formatting
- B.Flushing
- C.Masking
- D.Prefetching

**Answer: D**

144. When cache is full in a CLARiiON array, which cache flush method is used to create free space for incoming writes?

- A.forced
- B.high watermark
- C.idle
- D.low watermark

**Answer: A**

145. Which describes cache memory functions on a CLARiiON when the cache is enabled?

- A.Page size is not adjustable
- B.Page size is set for each LUN
- C.Write cache is always mirrored
- D.Write cache is never mirrored

**Answer: C**

146. In a CLARiiON array, which characteristic applies to a LUN?

- A.All LUNs in the RAID group have the same RAID type
- B.Both SPs have LUN ownership after initial binding
- C.Each LUN in a RAID group must be the same size
- D.LUNs can only be created on a single disk

**Answer: A**

147. In a CLARiiON array, which device takes the place of a failed disk in a RAID 5 RAID group?

- A.Hot Spare

- B.Pro active LUN
- C.PSM LUN
- D.Vault drives

**Answer: A**

148. In a CLARiiON, which RAID level is used to protect data that was dumped to the vault drives due to cache being disabled?

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

**Answer: C**

149. In a CLARiiON array, what is the process of transferring LUN ownership to the peer Storage Processor?

- A.balancing
- B.masking
- C.shifting
- D.trespassing

**Answer: D**

150. Which CLARiiON feature allows attached hosts access to storage groups?

- A.Access Logix
- B.formatting
- C.PowerPath
- D.trespassing

**Answer: A**

151. Which statement applies to the creation of RAID groups in a CLARiiON?

- A.All disks must be in the same enclosure
- B.Can contain both FC and ATA disks
- C.Cannot be expanded once created
- D.RAID types can be mixed in the array

**Answer: D**

152. In a CLARiiON array, what is the process of creating LUNS from the space within a RAID group?

- A.alignment
- B.binding
- C.formatting
- D.masking

**Answer: B**

153. In a CLARiiON array, which RAID type uses a single drive to maintain parity?

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

**Answer: C**

154. The administrator has configured a dual HBA server with four paths. PowerPath is NOT installed. What is a characteristic of this environment?

- A.I/O queues are typically balanced
- B.I/O queues are typically out of balance
- C.Storage ports are overloaded
- D.Volume management is simplified

**Answer: B**

155. How does PowerPath provide optimal performance?

- A.Automatically failover LUNs to another SP
- B.Constantly adjusts to changing I/O loads
- C.Manages the storage array
- D.Reports on I/O bottlenecks

**Answer: B**

156. What is the default policy for a host with a PowerPath license attached to a Symmetrix array?

- A.adaptive
- B.clar\_opt
- C.least\_blocks
- D.sym\_opt

**Answer: D**

157. What is the default load balancing policy for a host with a PowerPath license connected to a CLARiiON array?

- A.adaptive
- B.basic failover
- C.clar\_default
- D.clar\_opt

**Answer: D**

158. What is the default load balancing policy for a host with an unlicensed PowerPath connected to a Symmetrix array?

- A.adaptive
- B.basic failover
- C.no redirect
- D.sym\_opt

**Answer: C**

159. What is the default load balancing policy for a host without any PowerPath licenses connected to a CLARiiON array?

- A.basic failover
- B.clar\_opt
- C.no redirect
- D.request

**Answer: A**

160. What is a feature of PowerPath?

- A.Automated path failover with no path recovery
- B.Automatic report generation
- C.Static load balancing
- D.Dynamic load balancing

**Answer: D**

161. If only failover functionality is required on a host attached to a CLARiiON, which PowerPath license is used?

- A.Base
- B.CE
- C.Full
- D.Multi-platform

**Answer: A**

162. What PowerPath license enables the use of all load balancing policies on all platforms that PowerPath supports?

- A.Base
- B.CE
- C.Full
- D.Multi-platform

**Answer: C**

163. The administrator has configured a dual HBA server with four paths to each logical volume. PowerPath is installed. An HBA failure has occurred. What value does PowerPath add in this configuration?

- A.PowerPath will automatically run diagnostics on the HBA and log the results

- B.The administrator will be able to replace the HBA without shutting down the system
- C.The system will continue to operate in degraded mode
- D.The system will continue to operate with no impact on performance

**Answer: C**

164. Select the exhibit.

Missing the Exhibit

A server is configured with two HBAs connected to a CLARiiON array. There is a path from one HBA to one port on Storage Processor A and one port on Storage Processor B. The other HBA is configured similarly. A logical volume is configured to be accessible from all HBAs and assigned to Storage Processor A as the primary owner. What action does PowerPath take when Storage Processor B fails?

- A.Attempts to restart Storage Processor B by sending a command to Storage Processor A
- B.Continues to use the paths through Storage Processor A
- C.Notifies the CLARiiON array to transfer the data in cache for the logical volume to Storage Processor A
- D.Trespasses the LUN to Storage Processor A and uses the two paths through this Storage Processor

**Answer: B**

165. A server is configured with two HBAs connected to a CLARiiON array. One HBA has a path to a port on Storage Processor A and a port on Storage Processor B. The other HBA is configured similarly. A logical volume is configured to be accessible from all four paths and assigned to Storage Processor A as the primary owner. What action does PowerPath take when Storage Processor A fails? Missing the Exhibit

- A.CLARiiON trespasses to Storage Processor B and PowerPath uses the paths through Storage Processor B
- B.No action is required because the paths through Storage Processor A are passive paths
- C.Redirects the I/O load across the paths through Storage Processor A
- D.Uses the remaining path through Storage Processor A

**Answer: A**

166. Which PowerPath array type is a CLARiiON array?

- A.Active-active
- B.Active-passive
- C.Passive-active
- D.Passive-passive

**Answer: B**

167. What must be done to an application after PowerPath has been installed and configured?

- A.Put it in hot backup mode
- B.Reconfigure devices as necessary
- C.Re-install the application

D.Shut it down

**Answer: B**

168. On which platform is the PowerPath Administrator GUI available?

A.All supported UNIX platforms

B.All supported Windows and UNIX platforms

C.Solaris only

D.Windows only

**Answer: D**

169. Which business challenges does PowerPath address?

A.Availability

B.IP network access

C.RAID configuration

D.Virtualization

**Answer: A**

170. PowerPath has been configured to reassign the logical volume to the secondary interface when all paths to the logical device through the primary interface are unavailable. What type of array is this?

A.Active-active array

B.Active-passive array

C.Passive-active array

D.Virtual storage array

**Answer: B**

171. Which protocol implements access to block-level storage in a traditional IP networking environment?

A.FCP

B.iFCP

C.iSCSI

D.SCSI

**Answer: C**

172. In a SAN, which device can bridge a Fibre Channel storage array to an iSCSI host initiator?

A.Fibre Channel HBA

B.Fibre Channel hub

C.Gigabit Ethernet (GigE) switch

D.Multi-protocol switch

**Answer: D**

173. What is the format of a WWPN?

A.eight-octet decimal separated string

- B.four-octet decimal separated string
- C.string of eight hex pairs
- D.string of four hex pairs

**Answer: C**

174. Which best describes the iSCSI protocol?

- A.IP over SCSI
- B.SCSI over FICON
- C.SCSI over IP
- D.SCSI over IPX

**Answer: C**

175. What is a valid Fibre Channel topology model?

- A.ATM
- B.Core-Edge
- C.Star
- D.Token Ring

**Answer: B**

176. What is the primary purpose of iSNS in a Storage Area Network?

- A.To assist with discovery of iSCSI targets
- B.To implement TCP offload for better bandwidth
- C.To translate EUI-format names into iQN-format names
- D.To translate iQN-format names into EUI-format names

**Answer: A**

177. What describes the iFCP protocol?

- A.IP-based gateway-to-gateway protocol that can be used for SAN extension
- B.IP-based protocol that is required to present block storage from a NAS appliance
- C.IP-based protocol that is required to present FC targets to FC initiators
- D.IP-based tunneling protocol that can be used for SAN extension

**Answer: A**

178. What is the purpose of zoning?

- A.To balance data traffic across multiple ISLs
- B.To categorize LUNs on a storage array by throughput capability
- C.To isolate switch ports into separate VLANs
- D.To selectively expose array ports and HBAs to each other

**Answer: D**

179. What is the purpose of persistent binding on a host?

- A.To ensure that host device names remain constant, even if new storage targets are presented to the host
- B.To identify the host system's HBAs without any ambiguity to the storage array
- C.To lock down a unique set of LUN numbers for each storage array presented
- D.To permit multiple HBAs on the host to participate in separate fabrics

**Answer: A**

180. Which is an essential component of an IP SAN?

- A.Connectrix switch
- B.Host with Fibre Channel HBAs
- C.Host with iSCSI HBAs
- D.Storage array with native iSCSI support

**Answer: D**

181. Which type of zoning does EMC recommend?

- A.FCID Zoning
- B.Port Zoning
- C.Vendor-Unique Zoning
- D.WWPN Zoning

**Answer: D**

182. Select the exhibit.

Missing the Exhibit

It shows a simple core-edge fabric. What is represented by item 6?

- A.Core Switch
- B.Edge Switch
- C.HBA
- D.Storage Array Port

**Answer: B**

183. Select the exhibit.

Missing the Exhibit

It shows a simple core-edge fabric. What is represented by item 3?

- A.F\_Port
- B.HBA
- C.ISL
- D.Storage Port

**Answer: C**

184. A fabric contains a single host HBA requiring connectivity to storage ports on several storage arrays. Which parameter can impose a limit on this design?

- A.Fan-in ratio for each storage array port
- B.Fan-in ratio for the HBA
- C.Fan-out ratio for each storage array port
- D.Fan-out ratio for the HBA

**Answer: B**

185. What is an advantage of WWPN zoning?

- A.Existing zones remain valid even if cable connections are rearranged
- B.Existing zones remain valid even if HBAs are replaced
- C.Existing zones remain valid even if storage arrays are replaced
- D.Protects against "HBA spoofing"

**Answer: A**

186. Which Connectrix switches can be managed using WebTools?

- A.B-Series
- B.EMC-Series
- C.M-Series
- D.MDS-Series

**Answer: A**

187. Which is a Connectrix multi-protocol Router?

- A.B-Series AP-7420B
- B.B-Series DS220B
- C.M-Series DS-4700M
- D.MDS-Series MDS-9124

**Answer: A**

188. Which is a Connectrix Director?

- A.B-Series AP-7420B
- B.M-Series DS-4700M
- C.MDS-Series MDS-9124
- D.MDS-Series MDS-9509 V2

**Answer: D**

189. Which Connectrix series of switches use SANtegrity?

- A.B-Series
- B.EMC-Series
- C.M-Series
- D.MDS-Series

**Answer: D**

190. Which software options exist for managing a Connectrix M-Series fabric?

- A.Connectrix Manager and EMC ControlCenter
- B.Connectrix Manager and WebTools
- C.Device Manager and EMC ControlCenter
- D.EWS and WebTools

**Answer: A**

191. Which software options exist for managing a Connectrix B-Series fabric?

- A.CLI, Connectrix Manager and EMC ControlCenter
- B.CLI, EWS and EMC ControlCenter
- C.CLI, WebTools and EMC ControlCenter
- D.Connectrix Manager and Fabric Manager

**Answer: C**

192. What is provided by centralizing NAS client storage?

- A.can minimize the diversity of applications in the workplace
- B.can reduce the complexity of business operations
- C.provides authentication service for the network
- D.reduces the geographical spread of clients

**Answer: B**

193. Which statement is correct about a Celerra?

- A.general purpose appliance
- B.must be configured into a fibre channel fabric for access to storage devices
- C.only uses proprietary networking protocols for client access
- D.uses one or more network interface cards to attach to a customers environment

**Answer: D**

194. Which statement about a Celerra Data Mover is correct?

- A.It is an autonomous file server
- B.It requires an online Control Station to process I/O
- C.Manages and monitors the Control Station
- D.Runs an EMC version of the Linux operating system

**Answer: A**

195. Which statement about the Celerra Control Station is correct?

- A.It is required for dial home functionality
- B.It is required for network client connectivity to the Data Mover
- C.It is required for network client connectivity to the Storage array
- D.It provides access to Data Mover file systems via CIFS

**Answer: A**

196. Which operation would a CIFS client perform to access a Celerra advertised connection point?

- A.Export
- B.Map
- C.Mount
- D.Share

**Answer: B**

197. Which statement best describes a Celerra NSX?

- A.Connects directly to CLARiiON storage; does not share storage with any other servers
- B.Connects directly to Symmetrix storage; does not share storage with any other servers
- C.High-end, data center-class, shares storage with other servers
- D.Mid-tier class, shares storage with other servers

**Answer: C**

198. Which statement best describes a Celerra NS Series/Integrated?

- A.Connects directly to CLARiiON storage, does not share storage with any other servers
- B.Connects directly to Symmetrix storage; does not share storage with any other servers
- C.High-end, data center-class; shares storage with other servers
- D.Mid-tier class; shares storage with other servers

**Answer: A**

199. Which statement about Celerra AVM is correct?

- A.Creates, mounts and exports file systems
- B.Enabled when the client operating system is using multi-pathing technology
- C.Is used by default when creating file systems with the GUI
- D.Needs to be manually enabled when the system is initialized

**Answer: C**

200. Which disk configuration is supported for ATA drives when using Celerra NDMP2D?

- A.RAID 1
- B.4+1 RAID 3
- C.6+1 RAID 3
- D.14+1 RAID 3

**Answer: B**

201. Which statement about EtherChannel is correct?

- A.Disables links of a different speed to the majority of links in the trunk
- B.Increases single client bandwidth
- C.Permits two, four, or eight links

D.The network switch must support the IEEE 802.3ad LACP

**Answer: C**

202. Which statement about VLANs is correct?

A.VLANs bundle several physical ports into one logical channel

B.VLANs provide interconnections between switches

C.VLANs reduce network broadcast traffic

D.VLANs reduce the number of network segments in the network infrastructure

**Answer: C**

203. Which statement about Celerra TimeFinder/FS Far Copy is correct?

A.Is a CLARiiON only solution

B.Is a Symmetrix only solution

C.Provides a point-in-time view of the file system

D.Shares the same volume as the production file system

**Answer: B**

204. Which statement about Celerra SnapSure is correct?

A.Is a CLARiiON only solution

B.Is a Symmetrix only solution

C.Is supported on all Celerra implementations

D.Requires the creation of a BCV to function

**Answer: C**

205. Which statement about Celerra TimeFinder/FS is correct?

A.Is a CLARiiON only solution

B.Provides a discrete standalone copy of the file system

C.Provides a point-in-time view of the file system

D.Shares the same volume as the production file system

**Answer: B**

206. Which statement about Celerra TimeFinder/FS is correct?

A.Is a CLARiiON only solution

B.Provides a point-in-time view of the file system

C.Requires the creation of a BCV

D.Shares the same volume as the production file system

**Answer: C**

207. Which statement about Celerra network backup is correct?

A.Both metadata and data passes over the network infrastructure

B.No metadata or data passes over the network infrastructure

- C. Only data passes over the network infrastructure
- D. Only metadata passes over the network infrastructure

**Answer: A**

208. Which statement about Celerra network backup is correct?

- A. Backup servers can backup both NFS and CIFS attributes only over CIFS
- B. Backup servers can backup both NFS and CIFS attributes only over NFS
- C. Backup servers can backup both NFS and CIFS attributes over either CIFS or NFS
- D. NFS and CIFS attributes are not simultaneously preserved

**Answer: D**

209. Which statement about Celerra NDMP backup is correct?

- A. Cannot perform backup on file systems with NFS and CIFS permissions
- B. NFS and CIFS permissions are restored by the Control Station when the file system is restored
- C. NFS and CIFS permissions on the same file system are not simultaneously preserved
- D. NFS and CIFS permissions on the same file system are preserved

**Answer: D**

210. Which statement about Celerra NDMP2D backup is correct?

- A. NFS and CIFS permissions are restored by the Control Station when the file system is restored
- B. NFS and CIFS permissions on the same file system are not simultaneously preserved
- C. NFS and CIFS permissions on the same file system are preserved
- D. Cannot perform backup on file systems with NFS and CIFS permissions

**Answer: C**

211. Which data type is stored in Content Addressed Storage?

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

**Answer: D**

212. Select the exhibit.

Missing the Exhibit

It displays the basic components of a Centera. What are the names of the components labeled 2 and 3?

- A. 2=Access Nodes and 3=Content
- B. 2=Access Nodes and 3=Storage Nodes
- C. 2=Switches and 3=Access Nodes
- D. 2=Switches and 3=Storage Nodes

**Answer: D**

213. Which Centera model is designed to meet the strictest regulation requirements?

- A. Compliance Edition
- B. Compliance Edition Plus
- C. Governance Edition
- D. Governance Edition Plus

**Answer: B**

214. What is a Centera Virtual Pool?

- A. A package containing users data and associated metadata
- B. A set of function calls that enables communication between applications or between an application and an operating system
- C. A single logical cluster to be broken up into multiple logical groupings of data
- D. The content address that the system returns to the client. It is also referred to as a C-Clip handle and C-Clip reference

**Answer: C**

215. Which Centera model is the least restricted for customer regulatory needs?

- A. Basic Edition
- B. Centera Edition
- C. Compliance Edition Plus
- D. Governance Edition

**Answer: A**

216. What is the final step when retrieving an object in the Centera environment?

- A. Application authenticates request and delivers object
- B. Application finds the Content Address of object to be retrieved and delivers object
- C. Centera authenticates request and delivers object
- D. Retrieval request is sent to Centera via Centera API over IP

**Answer: C**

217. What is a function of the API for Centera?

- A. Creates a mirror image before sending the data to the Centera
- B. Generates the storage path for object location
- C. Replicates the data sent from the client
- D. Separates the BLOB from the metadata

**Answer: D**

218. What generates the Content Address for a Centera?

- A. Centera Verify
- B. Content Address XML

- C.Hashing algorithm
- D.WORM calculator

**Answer: C**

219. What is a supported Centera replication topology?

- A.Bus
- B.Ring
- C.Star
- D.Loop

**Answer: C**

220. Which tool is used by service personnel to troubleshoot the Centera?

- A.Centera Manager
- B.Centera Viewer
- C.CentraStar
- D.CentraStar Verify

**Answer: B**

221. What is a function of Centera Console for the System Administrator?

- A.Configure pools and profiles
- B.Create and manage volumes
- C.Maintain filesystems
- D.Monitor multiple clusters

**Answer: D**

222. Which Centera GUI tool is used to configure site specific information?

- A.Centera Manager
- B.Centera Monitor
- C.Centera Verify
- D.Centera Viewer

**Answer: D**

223. What is a characteristic of a Business Continuity Volume?

- A.Can be a different emulation as the standard volume
- B.Can be the same size or larger than the standard volume
- C.Must be addressable by a remote host
- D.Must be the same size as the standard volume

**Answer: D**

224. What are two architectural components of TimeFinder/SNAP?

- A.BCVs and Clone Devices

- B.Clone Devices and Save Pool
- C.Save Pool and BCVs
- D.VDEVs and Save Pools

**Answer: D**

225. A BCV that is locally protected is established with a standard device and updated. At what point will the BCV and its local protection become synchronized?

- A.The local protection device is synchronized at the same time as the BCV
- B.The local protection device is synchronized when the Adaptive Copy Track Table exceeds 128K
- C.The local protection device is synchronized when the re-establish command is executed
- D.They will synchronize after the BCV and the standard have been split

**Answer: D**

226. A customer is using TimeFinder/Snap for point-in-time copies of data throughout the day. What operation will make the Snap available for immediate read/write access?

- A.Activate
- B.Create
- C.Establish
- D.Restore

**Answer: A**

227. When a production volume and BCV are re-established, what happens to the tracks that had previously been updated on the BCV?

- A.Data is copied from the BCV to the standard device
- B.Deltas from BCVs are synchronized to the standard volume
- C.The BCV is overwritten with data from the BCV local mirror
- D.The BCV is updated with data from the standard device

**Answer: D**

228. After the completion of a split operation, what is the status of a BCV device?

- A.Not Ready
- B.Offline
- C.Read Only
- D.Read/Write

**Answer: D**

229. Which process is used by TimeFinder/Snap to access a standard device during an active session?

- A.Copy on First Access
- B.Copy on First Write
- C.Copy on SNAP Access

D.Delta Copy on Establish

**Answer: B**

230. What describes TimeFinder/Mirror Consistent Split?

- A.A reverse-split to multiple device groups
- B.A split between a standard and BCV
- C.An instant split across multiple devices
- D.An instant split between a primary BCV and secondary BCV

**Answer: C**

231. What impact will invoking the reverse split command have on the data contained within the BCV device?

- A.At the completion of the reverse split, data from the BCV will be restored to the standard
- B.BCV data will be overwritten with the original data from its local mirror
- C.Overwrites local BCV mirror data with remote BCV data
- D.Restores BCV data from standard device's local mirror position

**Answer: B**

232. Which statement describes the technology "Copy On Access"?

- A.Data copied to clone when clone is first accessed only
- B.Data copied to clone when standard is accessed for Read or Write only
- C.Data is copied to the clone when the standard is accessed for Read or Write and/or clone is first accessed
- D.The standard volume is fully synchronized with clone for any access

**Answer: C**

233. Which management tool can be used to manage TimeFinder operations?

- A.EMC ControlCenter
- B.Navisphere Manager
- C.SRDF [Symmetrix Remote Data Facility]
- D.VisualSAN

**Answer: A**

234. Which application is required for scripting TimeFinder functionality?

- A.Navisphere Manager
- B.Solutions Enabler
- C.SRDF [Symmetrix Remote Data Facility]
- D.VisualSAN

**Answer: B**

235. What would be a requirement for SRDF/Automated Replication?

- A. Business Continuity Volumes
- B. Limited distance recovery site
- C. R2 BCVs
- D. SRDF/A enabled at remote locations

**Answer: A**

236. Which statement describes SRDF/A?

- A. Combines SRDF and TimeFinder to create remote copies
- B. Provides a remote copy using a "Skew" value
- C. Provides a synchronous copy of the last write operation
- D. Provides remote copies using Delta sets

**Answer: D**

237. Which statement describes SRDF/Automatic Replication?

- A. Combines SRDF and TimeFinder to create a copy
- B. Provides a remote copy using Delta cycles
- C. The remote copy is one write behind the source copy
- D. Used for MCSS and cluster environments

**Answer: A**

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