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Exam Code: E20-040 EMC Technology Foundations

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1. In a Symmetrix, what is Parity RAID?

- A. Difference data (results of XOR calculation) passed between drives by DAs
- B. Mirror of Symmetrix Logical Volume maintained in separate Symmetrix frame
- C. Mirrored Striped Volumes
- D. Two mirrors of one Symmetrix Logical Volume located on a separate physical drive

Answer: A

2. What is optional when using Synchronous MirrorView?

- A. fracture log
- B. event error log
- C. write intent log
- D. connection log

Answer: C

3. What does the ControlCenter SAN agent monitor?

- A. Legato Networker
- B. Windows 2000 disk
- C. CLARiiON
- D. Brocade switch

Answer: D

4. Which statement applies to working with active zone sets in ControlCenter?

- A. Directly modify an active zone set.
- B. Directly delete an active zone set.
- C. Place a copy of an active zone set in the Planned Zone Sets folder for activation/modification.
- D. Associate an active zone set with multiple fabrics or VSANs at once.

Answer: C

5. Which Symmetrix connectivity options can be used with mainframe hosts?

- A. ESCON and Fibre Channel
- B. ESCON and FICON
- C. Fibre Channel and FICON
- D. Fibre Channel and SCSI

Answer: B

6. How is free space maintained in the CLARiiON write cache?

- A. Low watermark flushing is suspended during write operations
- B. Cache is flushed to the drives during I/O bursts and only the least-recently used pages are flushed
- C. Cache is automatically flushed every 90 minutes
- D. Low watermark flushing is suspended during read operations

Answer: B

7. What is a characteristic of zoning in a SAN environment?

- A. Fabric independent service
- B. Allows devices within the fabric to be logically segmented
- C. LUN access control in a shared environment
- D. Allows switches to aggregate ISLs to increase bandwidth

Answer: B

8. Which Java based interface manages standalone MDS-Series switches?

- A. Fabric Manager
- B. Web Tools
- C. EWS
- D. DS-M Connect

Answer: A

9. What are the two [2] available configuration options for the NS600 Data Movers?

- A. One Data Mover is primary, and one acts as a standby
- B. One Data Mover acts as a standby for the other three (3) Data Movers

- C. All four (4) Data Movers are primary
- D. Both Data Movers are primary

Answer: AD

10. How is data handled by the TimeFinder/Mirror Establish operation?

- A. Copied from the BCV device to Standard device
- B. Copied from the Standard device to the BCV device
- C. Restored from the BCV device to the Standard device
- D. Copied from the VDEV device to the BCV device

Answer: B

11. Which statement describes TimeFinder/Mirror?

- A. Replica can be made available to the backup host immediately after the activation of the replication session
- B. Replica does not require identical storage capacity as the Source device
- C. Replica requires a fraction of the storage capacity as the Source device
- D. Replica requires an initial full synchronization before the data on the replica is available

Answer: D

12. What is a characteristic of the dual-ported disk and redundant directors in Symmetrix DMX systems?

- A. Directors are always configured in pairs
- B. Disk modules have one Fibre Channel port
- C. Drive ports connect to directors by the same loop
- D. Directors have two primary loops and two secondary loops for failover

Answer: A

13. Which Symmetrix system uses a two bus architecture that consists of an "X" and a "Y" bus?

- A. Symmetrix 5.0
- B. Symmetrix DMX
- C. Symmetrix 5.0 LVD
- D. Symmetrix 4.8

Answer: D

14. What is an advantage of the shared global memory in Symmetrix DMX systems?

- A. 128GB cache cards
- B. Point-to-point connection to each cache card
- C. 256GB cache cards
- D. Multiple paths along X and Y bus to cache

Answer: B

15. Which Symmetrix system uses a four bus architecture?

- A. Symmetrix 4.8
- B. Symmetrix 5
- C. Symmetrix 4
- D. Symmetrix DMX

Answer: B

16. Which Symmetrix DMX component(s) follow the rule of 17?

- A. Directors
- B. Communication Control Cards
- C. Global Cache Memory
- D. Mirrored Volumes

Answer: A

17. In which Symmetrix components is the initial microcode program load file - IMPL.bin - stored?

- A. Global Cache Memory and Service Processor
- B. Service Processor and Director boards
- C. Director boards and Communication Control Card
- D. Global Cache Memory and Communication Control Card

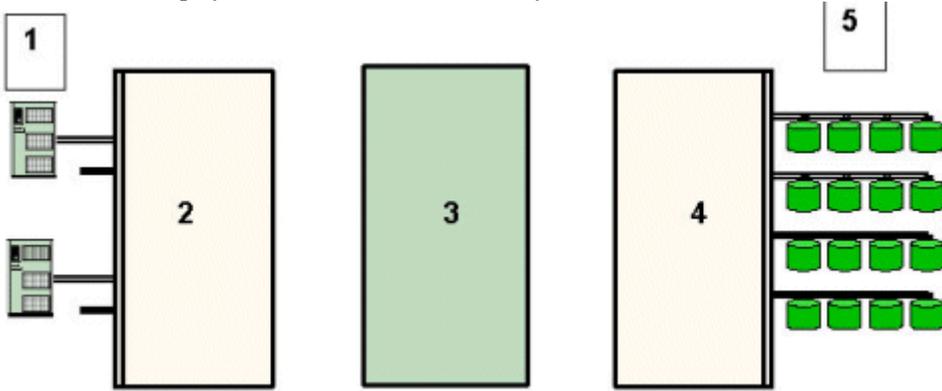
Answer: B

18. What determines the order data is flushed from Symmetrix Global Cache Memory?

- A. XOR parity
- B. First-in-first-out
- C. Symmetrix purge
- D. Age-link-chain

Answer: D

19. The exhibit displays the basic architecture of a Symmetrix.

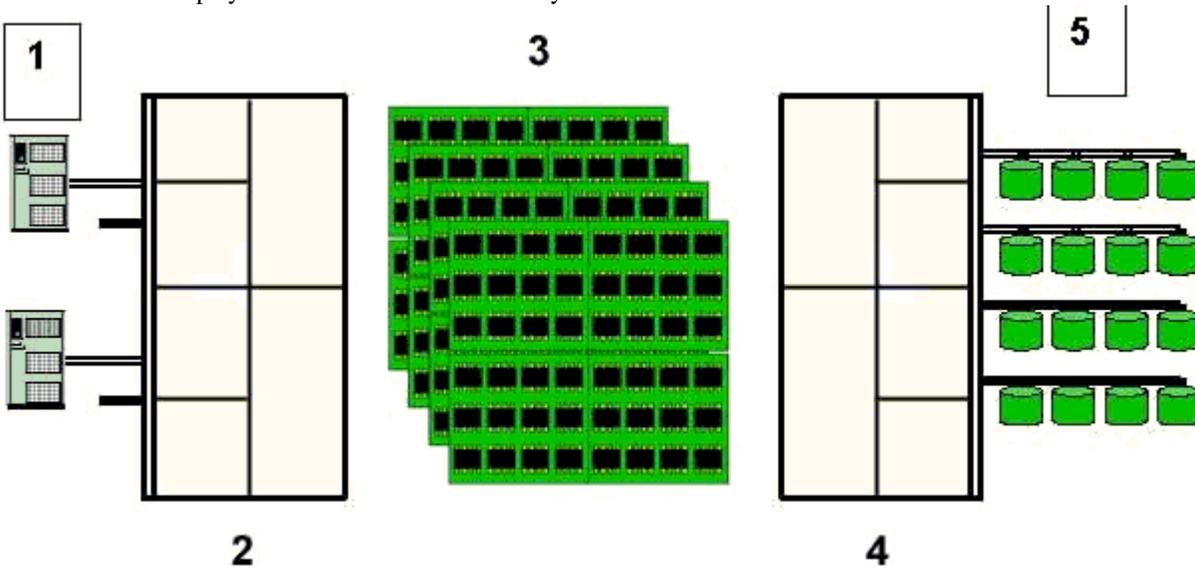


What are the names of the components labeled #2 and #5?

- A. #2 = Front-end Channel Director
#5 = Cache
- B. #2 = Front-end Channel Director
#5 = Disk Drives
- C. #2 = Front-end Channel Director
#5 = Back-end Disk Director
- D. #2 = Host
#5 = Disk Drives

Answer: B

20. The exhibit displays the basic architecture of a Symmetrix.



What are the names of the components labeled #3 and #4?

- A. #3 = Cache
#4 = Back-end Disk Director
- B. #3 = Cache
#4 = Disk Drive
- C. #3 = Front-end Channel Director

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#4 = Cache

D. #3 = Front-end Channel Director

#4 = Back-end Disk Drive

Answer: A