

**Exam : IBM 000-208**

**Title : Open Systems Storage Solutions  
Version 6**

**Update : Demo**

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1. A customer reports that its application, an Oracle database, is running queries rather slowly after migrating the application over to an IBM System Storage DS4800. What should the storage specialist recommend that the customer do first to help resolve the performance issue?

- A. monitor the cache hit ratio for the array being used by the application
- B. reallocate the stripe size of the array for better performance
- C. monitor the array using the Performance Monitor to determine the issue
- D. change the RAID level of the array for better performance

Answer: C

2. A customer has two SAN islands. One SAN consists of two IBM TotalStorage 2109-M48 redundant fabrics with server access to IBM System Storage DS4700 disk in production. The other SAN consists of two 2109-F16

redundant fabrics with server access to IBM System Storage DS4300 disk in development. The customer plans to migrate the data residing in the DS4300 to the DS4700 and keep the SANs separate. Which is the least disruptive

and most cost-effective solution for connecting the two SAN islands?

- A. add SAN18B-R
- B. add a backbone SAN256B
- C. add switch ISL trunking
- D. add Cisco 9216A

Answer:A

3. A client who recently installed an IBM System Storage DS4800 for Exchange is now interested in adding a new high performance, data warehouse application to the disk system. Which configuration on the DS4800 provides the best possible performance for the data warehouse application?

- A. RAID 5 and a large segment size
- B. RAID 1 and a small segment size
- C. RAID 5 and default cache block size
- D. RAID 1 and 32k cache block size

Answer:A

4. A customer owns a 500 GB usable RAID 5 SCSI disk subsystem attached to a single host and wants to increase data throughput, reliability, availability, and serviceability. Cost is a significant consideration. Which solution meets the customer's requirements?

- A. convert the RAID 5 subsystem to a RAID 1 subsystem
- B. convert the existing subsystem to dual-attached SCSI
- C. replace the existing subsystem with an IBM System Storage DS4000
- D. replace the existing subsystem with an IBM System Storage DS3000

Answer: D

5. When an Oracle database is not cache friendly and has a high number of writes, which disk technology provides the best performance on the IBM System Storage DS6800?

- A. 73 GB 10K RPM disk drives

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- B. 73 GB 15K RPM disk drives
  - C. 146 GB 10K RPM disk drives
  - D. 146 GB 15K RPM disk drives

Answer: B

6. A customer is adding an IBM System Storage DS4800 for a new Exchange 2003 e-mail solution to meet the following requirements:

- 20% yearly growth
- 2,500 mailboxes
- approximately 50/50 mix of read/write operations

The storage specialist has been asked to model this configuration using the expected workload to verify the solution.

What is needed to start modeling?

- A. 73 GB 15K RPM drives
- B. the size of the users' Exchange mailbox
- C. the number of servers running Exchange
- D. Jetstress tool that will be used to emulate the Exchange environment

Answer: B

7. A customer currently has an IBM System Storage DS4300 and an EMC CX500 installed in its data center that provides storage capacity for existing Windows servers. The customer wants to preserve its investment in these

systems by implementing an IBM System Storage SAN Volume Controller to virtualize the storage. What must the customer do with regard to its multi-path I/O drivers for the Windows servers?

- A. The customer needs to use RDAC to manage the multiple redundant paths for the DS4300 and the CX500.
- B. The customer needs to migrate to PowerPath to manage the multiple redundant paths for the DS4300 and the CX500.
- C. The customer needs to use RDAC for the DS4300 and PowerPath for the CX500 to manage the multiple redundant paths.
- D. The customer needs to migrate to SDD to manage the multiple redundant paths for the DS4300 and the CX500.

Answer: D

8. IBM LTO Ultrium 4 technology has which of the following characteristics?

- A. 200 GB capacity per tape and 40 MB per sec data throughput
- B. 400 GB capacity per tape and 80 MB per sec data throughput
- C. 500 GB capacity per tape and 100 MB per sec data throughput
- D. 800 GB capacity per tape and 120 MB per sec data throughput

Answer: D

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9. When a customer has a critical situation, who on the IBM team is the central point of contact to organize resources to fix the problem?

- A. Client Representative
- B. Customer Support Representative
- C. Field Technical Sales Support
- D. Customer Engineer

Answer: B

10. A customer wants to mix Windows and AIX servers on the same SAN. What does the customer need to ensure success?

- A. the correct number of ports on the SAN switches
- B. the proper size disk drives
- C. sufficient disk drives for each server
- D. zoning of the SAN switches

Answer: D

11. A customer has several Intel-based servers with local attached disk. They recently installed an IBM System Storage DS8100 attached to two UNIX servers for a database application. The customer is now interested in evaluating duplicate files in their Intel environment. Which IBM product best meets the customer's requirement?

- A. IBM TotalStorage Productivity Center for Data
- B. IBM TotalStorage Productivity Center for Disk
- C. IBM TotalStorage Productivity Center for Fabric
- D. IBM Tivoli Storage Manager

Answer:A

12. What is the function of the IBM Remote Support Manager (RSM)?

- A. monitors system status and e-mails the customer when problems occur
- B. monitors system status and pages the customer when problems occur
- C. monitors the system environment and provides control of power, fan, and controller activities
- D. monitors system health and automatically notifies the IBM Support Center via e-mail when problems occur

Answer: D

13. Which resource makes it possible for new configurations to be supported by IBM?

- A. Request Detail Document (RDD)
- B. Request for Information (RFI)
- C. Request for Price Quotation (RPQ)
- D. Request a Letter 112

Answer: C

14. A customer has ten servers including Windows, Solaris, and AIX that need direct access to a single-tape

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solution. Which tape solution is the most cost-effective way to meet this requirement?

- A. IBM System Storage TS1120 Tape Drive
- B. IBM System Storage TS3200 Tape Library
- C. IBM System Storage TS3500 Tape Library
- D. IBM System Storage TS2340 Tape Drive

Answer: C

15. A customer must take one of their IBM System Storage DS4000 storage servers offline for maintenance. The server is being used in an IBM System Storage SAN Volume Controller (SVC) environment. What should be done to ensure that there is no impact on the customer's applications?

- A. identify all of the servers attached to the SVC, and take them offline during the DS4000 maintenance update
- B. dynamically migrate the vdisks associated with the DS4000 server to a separate storage server, then perform maintenance
- C. consider that SVC will automatically failover and failback to compensate for this type of situation
- D. reassign the mDisks from this DS4000 server to another storage pool within the SVC during the maintenance update to maintain continuous access to data

Answer: B

16. A customer currently has multiple Sun Solaris servers and wants 500 GB of new storage capacity to be partitioned among these processors. The storage will replace older Fibre Channel disks currently attached to the Sun processors. The customer is migrating the Sun systems to HP-UX platforms in a few months and wants to preserve as much of the new disk subsystem investment as possible at that time. If cost is a primary consideration, which IBM storage system is the preferred choice?

- A. IBM System Storage N5200 Gateway
- B. IBM System Storage DS4700
- C. IBM System Storage SAN Volume Controller
- D. IBM System Storage DS6800

Answer: B

17. A customer has three Microsoft Windows 2003 servers, each with 100 GB of data. It is recommended that an IBM Tivoli Storage Manager disk pool of storage be used for daily backups. Assuming a 10% change rate with daily migration to tape, within the ranges below what is the minimum amount of disk space that needs to be added

to the IBM Tivoli Storage Manager server?

- A. 10 GB
- B. 50 GB
- C. 150 GB
- D. 450 GB

Answer: B

18. Which IBM Tivoli Storage Manager (TSM) feature differentiates TSM from competitive backup software products?

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- A. management of IBM and non-IBM tape libraries
  - B. progressive backup
  - C. effective management of large disk pools
  - D. support for servers, desktops, and laptops

Answer: B

19. A distributor is planning to open five locations, with each location requiring a local nightly backup of 1 TB of data from a Sun server. Performance and cost are key requirements. Which is the best solution?

- A. IBM System Storage TS1030 Tape Drive
- B. IBM System Storage TS1120 Tape Drive
- C. IBM System Storage TS3100 Tape Library
- D. IBM System Storage TS3310 Tape Library

Answer: C

20. What is the maximum distance that an IBM System Storage DS4000 can be mirrored without the use of channel extenders?

- A. 5 kilometers (3 miles)
- B. 10 kilometers (6 miles)
- C. 100 kilometers (62 miles)
- D. 300 kilometers (186 miles)

Answer: B

21. The customer has a server connected to IBM and EMC storage via a single SAN. The IBM storage is using SDD and EMC storage is using PowerPath. What is the minimum number of Fibre Channel host ports needed to provide redundant paths to both storage subsystems?

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

Answer: D

22. A customer wants to use IBM Tivoli Storage Manager to back up five Microsoft Windows 2003 file and print servers and is asking for advice on storage. The customer's anticipated daily backup increment is approximately 10 GB, which represents 1% of all of the customer's data. The customer also anticipates an average retention

period of 60 days. The customer makes off-site storage pool backups daily and sends database backups off-site. What is the minimum amount of tape capacity needed?

- A. 0.6 TB
- B. 1 TB
- C. 3 TB
- D. 5TB

Answer: C

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23. A customer has EMC CLARiiON, EMC Symmetrix, HP EVA, and both Brocade and McData switches. The customer has expressed concern about the complexity and cost of its environment. What can the customer install to better understand its environment?

- A. IBM TotalStorage Productivity Center Standard Edition
- B. IBM System Storage SAN Volume Controller
- C. Tivoli Intelligent Orchestrator
- D. Tivoli Provisioning Manager

Answer:A

24. Which of the following is the advantage of the IBM System Storage DS4800 Model 80 over the DS4700 Model 72?

- A. Allows for more cache memory
- B. Reduces processing power from the device adapters
- C. Allows for more drives
- D. Minimizes the interconnect bandwidth utilization between clusters

Answer: C

25. To meet new service level agreements, a customer must have 38,000 IOPS available for its database. The customer currently uses an IBM System Storage DS4300 with 112 15K, 146 GB drives. Which solution should cause the least disruption to the customer?

- A. IBM System Storage DS4800
- B. IBM System Storage N5500
- C. IBM System Storage DS6800
- D. IBM System Storage DS8100

Answer:A

26. Which is a competitive advantage of the IBM System Storage DS4000 MetaData?

- A. The MetaData is stored across all drives in the system.
- B. The MetaData is stored on the first five drives in the system.
- C. The MetaData must be stored on FC drives.
- D. The MetaData is stored in the controller, thereby freeing up additional drive space.

Answer:A

27. A customer has a medical application running under Windows, which is not capable of interacting with any System Storage Archive Manager APIs. If IBM's Data Retention solution DR550 is used, what can be done to address this issue?

- A. Use the Ethernet Direct Connection Facility (EDCF) in the DR550 to interact with the application.
- B. Use the File System Gateway (FSG) to interact with the System Storage Archive Manager API and the DR550.
- C. Use the JAVA native Interface to attach the application to the DR550, without interacting with the API.
- D. Use the JAVA native interface or the FSG to directly attach to the DR550, without interacting with the System Storage Archive Manager API.

Answer: B

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28. A client deployed an IBM System Storage N5500 to support a Microsoft Exchange implementation via iSCSI.

The client needs to improve I/O response times. Which solution meets the client's requirements?

- A. add FCP support to the N5500
- B. mount the Exchange files via NFS
- C. mount the Exchange files via CIFS
- D. migrate the data to SATA drives

Answer:A

29. An end-user currently has an IBM TotalStorage 3583 Tape Library with four LTO1 drives with a 12-slot cartridge I/O station. Additional cartridge slots are required to increase library storage capacity. What is the most cost effective way to increase the capacity by 4.8 TB (uncompressed) and still provide 4 drives?

- A. Upgrade the library to an IBM System Storage TS3200 Tape Library
- B. Upgrade the library to an IBM System Storage TS3310 Tape Library
- C. Replace LTO1 drives with LTO4 drives
- D. Upgrade the library to an IBM System Storage TS3100 Tape Library

Answer:A

30. What is the maximum number of mirrored pairs that can exist in an Enhanced Remote Mirroring configuration on a IBM System Storage DS4300 Turbo?

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

Answer: B