

**C1000-022.27q**

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**C1000-022**



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**IBM Storage Technical V2**

**Exam A**

**QUESTION 1**

Which exclusive feature of the IBM FlashSystem 9100 is a technical advantage over competitive storage arrays?

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- A. 3D NAND SATA SSD drives
- B. NVMe SSD drives
- C. XL Flash modules
- D. FlashCore modules

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.crn.com/news/storage/300106236/ibms-new-flashsystem-9100-all-nvme-flash-storage-comes-loaded.htm>

## QUESTION 2

Which IBM storage solution provides the least latency?

- A. IBM FlashSystem 9100
- B. IBM FlashSystem 900
- C. IBM FlashSystem V9000
- D. IBM FlashSystem A9000

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.ibm.com/developerworks/community/blogs/5things/entry/5\\_Things\\_to\\_know\\_about\\_IBM\\_FlashSystem\\_V9000?lang=en](https://www.ibm.com/developerworks/community/blogs/5things/entry/5_Things_to_know_about_IBM_FlashSystem_V9000?lang=en) **QUESTION 3**

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A customer with block storage from a competitor desires an OpenStack ready platform for storage management. Which solution should the technical specialist recommend?

- A. IBM Spectrum Accelerate
- B. IBM Spectrum Scale
- C. IBM Storage Insights
- D. IBM Spectrum Control

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.ibm.com/support/knowledgecenter/en/STXKQY\\_5.0.3/com.ibm.spectrum.scale.v5r03.doc/bl1ins\\_openstackusecase.htm](https://www.ibm.com/support/knowledgecenter/en/STXKQY_5.0.3/com.ibm.spectrum.scale.v5r03.doc/bl1ins_openstackusecase.htm)

#### QUESTION 4

What is the default configuration of a RAID protection level in an IBM DS8886 HPFE?

- A. RAID 5
- B. RAID 1
- C. RAID 10
- D. RAID 6



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.redbooks.ibm.com/redpapers/pdfs/redp5422.pdf>

#### QUESTION 5

A customer plans to upgrade its LTO-4 tapes and drives to LTO-7 drives.

Which solution should the technical specialist propose concerning existing media that needs to be retained for later recovery?

- A. Use the LTO-4 drive to write to the new LTO-7 media
- B. Reformat the LTO-4 media to be used by LTO-7 drives
- C. Existing media can be read using LTO-7 drives

D. Keep an existing drive to process existing LTO-4 media

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 6

A customer has existing SAP HANA production nodes connected to IBM Spectrum Scale. The customer needs to scale out additional nodes to maintain the high bandwidth requirement.

Which type of nodes should be proposed?

- A. Storage nodes with SAS drives
- B. Storage nodes with NVMe drives
- C. Protocol nodes with SSD drives
- D. Storage nodes with SSD drives

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



### QUESTION 7

What is the minimum role level needed to download support log files to troubleshoot the IBM Spectrum Virtualize software?

- A. Administrator
- B. Monitor
- C. Service
- D. Security Administrator

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

A customer issued an RFP to replace EMC Disks. Vendors are being asked to provide the best competitive advantage in their proposals. What should the IBM proposal on an IBM FlashSystem A9000 include in the bid?

- A. IBM HyperSwap migration
- B. All software features included in base price
- C. Flash cache
- D. External storage virtualization

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

What describes IBM maintenance remote support security features for the IBM TS4500?

- A. IBM TS4500 tape library supports password protected dial-in via telnet or ftp.
- B. Customer data on tape or in memory is encrypted for transmission during remote support sessions.
- C. IBM TS4500 call-home support defaults to email notification rather than direct dial-in.
- D. Dial-in is restricted through the IMC, requiring separate logins for each attached system.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

A customer wants a storage system solution with proactive system health management. The customer has asked about advantages that the IBM FlashSystem A9000R offers.

Which feature should the technical specialist discuss?

- A. IBM Spectrum Connect

- B. Phase out and self-healing mechanisms
- C. IBM Assist On-site
- D. Grid architecture redundancy with hot standby

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.ibm.com/support/knowledgecenter/STJKMM\\_12.0.3/PDFs/IBM\\_FlashSystem\\_A9000\\_12.0.3\\_PO.pdf](https://www.ibm.com/support/knowledgecenter/STJKMM_12.0.3/PDFs/IBM_FlashSystem_A9000_12.0.3_PO.pdf)

#### **QUESTION 11**

An IBM customer has IBM DS8886 storage installed. The customer has decided to add another new IBM DS8886 and use Metro Mirror to provide a synchronous redundant copy of the data.

Which additional IBM software enables non-disruptive failover in the event of a storage hardware failure?

- A. IBM Remote Pair FlashCopy
- B. IBM Global Mirror
- C. IBM Spectrum Connect
- D. IBM Hyper-Swap Manager



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

What is one advantage of IBM Storage Insights Pro over IBM Storage Insights?

- A. Simplified ticket workflows
- B. Upgrade recommendations
- C. Reclaim unused storage
- D. Unified Dashboard

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

Which IBM product should the technical specialist propose to a customer who wants to store multiple PBs of unstructured data that requires a single namespace?

- A. IBM Spectrum Archive LE
- B. IBM Clustered Storwize Array
- C. IBM Spectrum Scale
- D. IBM Spectrum Insights

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

Which IBM Storage feature deployed by IBM Lab Services gives customers the Peace of Mind guarantee of 100% data availability?



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- A. IBM controller upgrade program
- B. Hyperledger
- C. IBM HyperSwap
- D. Flash Endurance

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**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/downloads/cas/ROX8M7M5>

**QUESTION 15**

Which IBM function provides a high availability feature with dual-site, active-active access to a volume in IBM Spectrum Virtualize?

- A. FlashCopy
- B. IBM Hyper-Scale Manager
- C. Remote Mirror
- D. HyperSwap

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.ibm.com/support/knowledgecenter/STVLF4\\_8.2.1/spectrum.virtualize.821.doc/svc\\_hyperswapovr.html](https://www.ibm.com/support/knowledgecenter/STVLF4_8.2.1/spectrum.virtualize.821.doc/svc_hyperswapovr.html)

**QUESTION 16**

An IBM TS4500 Tape Library customer has a requirement to add high availability to all systems in the data center. What must be added to the library to meet the high availability requirement?

- A. Dual grippers
- B. Redundant I/O stations
- C. Dual accessors
- D. Redundant Library Managers

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redbooks/pdfs/sg248235.pdf> (19)

**QUESTION 17**

An IBM TS4500 has experienced I/O errors that have prevented moving the library into production. IBM has verified that the configuration is valid and performed the replacement of multiple parts.

What is the next step the technical specialist should perform?

- A. Perform an in-depth problem analysis and follow up with appropriate actions to resolve the issue
- B. Escalate the issue through the complaint process (critsit) and explain this process and next steps to the customer.
- C. Facilitate a meeting with IBM and customer executives to discuss available options to resolve the situation.
- D. Conduct a workshop with customer system administrators and IBM technical field support representatives to jointly resolve the problem.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

After activating disk encryption on an existing IBM TS7700, which action does a client need to take for the existing virtual volumes to be encrypted?

- A. Any existing volumes will have to expire and be reused before being encrypted.
- B. The customer must assign existing virtual volumes with a new encryption policy.
- C. No additional customer action is required once encryption is enabled.
- D. The copy refresh command must be issued for each of the existing volumes.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Which solution allows for the greatest effective capacity per EIA unit of rack space?

- A. IBM FlashSystem 9100
- B. IBM Storwize V7000F
- C. IBM Storwize V5030F

D. IBM FlashSystem A9000R

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep\\_sm/2/872/ENUS7014-T42/index.html&lang=en&request\\_locale=en](https://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_sm/2/872/ENUS7014-T42/index.html&lang=en&request_locale=en)

#### QUESTION 20

Which IBM FlashSystem A9000 replication feature provides the ability for a remote target volume to be initialized without requiring the contents of the source volume to be re-replicated over an inter-site link?

- A. Synchronous replication
- B. Change volume replication
- C. Offline initialization
- D. Asynchronous replication

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Reference: <https://www.redbooks.ibm.com/redpapers/pdfs/redp5401.pdf> (18)

#### QUESTION 21

Which IBM software allows a customer to utilize containers with IBM FlashSystem storage?

- A. IBM Spectrum Connect
- B. IBM HyperScale Mobility
- C. IBM Spectrum Virtualize for Cloud
- D. IBM Cloud Object Storage

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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Reference: <https://www.ibm.com/downloads/cas/KK5PGD8E>

#### QUESTION 22

A customer with a local IBM SVC cluster wants to use S3 protocol for archiving. Which IBM SVC feature can be used to meet these requirements?

- A. HyperSwap
- B. Global Mirror
- C. Metro Mirror
- D. Transparent Cloud Tiering

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5121.pdf>

#### QUESTION 23

A customer requires a mass scale-out storage solution to organize, store, manage and access unstructured data. The system must be highly secure, with no single point of failure, and unlimited scalability. The data must be stored economically across 4 sites with continuous access to data, even if one site is offline. Which product should the technical specialist recommend?

- A. IBM High Performance Storage System
- B. IBM Cloud Object Storage
- C. IBM Spectrum Scale
- D. IBM Virtual Tape Server Grid

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ibm.com/se-en/marketplace/scale-out-file-and-object-storage>

#### QUESTION 24

A security policy for a customer specifies a need for similar methods to manage encryption keys for disk and tape storage. A recent proposal includes the IBM TS4500 and IBM Storwize V5030.

Which solution should the technical specialist highlight?

- A. IBM Spectrum Control will manage encryption for both products.
- B. Enterprise Secure Key Manager
- C. IBM Enterprise Key Management Foundation
- D. IBM Security Key Lifecycle Manager will manage keys for both products.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

A customer wants to migrate from an IBM DS5300 to an IBM FlashSystem V9000 and wants to determine reductions in physical storage requirements. Which tool should the customer use?

- A. Storage Consolidation Evaluation Tool
- B. IBM Comprestimator Utility
- C. Disk Magic
- D. Capacity Magic



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

Which offering provides scale-out parallel processing and dramatically accelerates performance of analytics clusters when integrated with the IBM FlashSystem?

- A. IBM Cloud Object Storage
- B. IBM Spectrum Connect
- C. IBM Spectrum Accelerate
- D. IBM Spectrum Scale

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

A customer has an IBM SAN Volume Controller cluster with two CF8 nodes that contain one four-port Fibre Channel card. The customer desires to replace these two nodes with two new SV1 nodes running compression. The customer requires that this upgrade occur without down time. Which step is needed first to ensure success of this upgrade?

- A. Determine if the new SV1 nodes have a compression accelerator.
- B. Make sure there are at least two Fibre Channel cards in the SV1 Nodes.
- C. Confirm the CF8 nodes are running at least software version v7.7.1.
- D. Ensure the new SV1 nodes have one hot spare node.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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