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**Vendor:** IBM

**Exam Code:** C4090-453

**Exam Name:** IBM System Storage DS8000 Technical Solutions V3

**Version:** Demo

**QUESTION 1**
Which function is unique to the DS8000 within the following IBM disk storage products: DS8000, XIV, Storwize V7000?

A.  Native encryption
B.  Support for SSDs
C.  Support for large form factor drives
D.  Support for native Fibre Channel connections

**Correct Answer:** A

**QUESTION 2**
Which tool can a customer use without assistance to determine whether a mixture of different disk types, in conjunction with Easy Tier, could improve performance on a DS8000?

A.  Disk Magic
B.  Capacity Magic
C.  Pre-Sales Advisor
D.  Storage Tier Advisor

**Correct Answer:** D

**QUESTION 3**
Which of the following statements about remote replication on the D38000 is true?

A.  Global Copy does not provide consistency
B.  Global Mirror has a maximum of 256 volumes
C.  Metro Mirror's longest supported distance is 100 kilometers
D.  Metro/Global Mirror can only be used for z/OS data

**Correct Answer:** A

**QUESTION 4**
What is the set of databases where objects can be accessed by sending SNMP get or set requests?

A.  SNMP MIB
B.  SNMPDTB
C.  SNMP SET/GET
D.  SNMP notifications

**Correct Answer:** A

**QUESTION 5**
Which of the following statements regarding the DSS000 Metro Mirror consistency group function is true?

A.  Metro Mirror consistency groups are not required to maintain data consistency across devices in a disaster situation.
B.  Simply enabling the Metro Mirror consistency group function on a PPRC path will provide consistency for all devices in this LSS.
C.  The consistency group functionality requires external automation such as Tivoli Storage Productivity Center V5.x or GDPS to work correctly.
D.  A Metro Mirror consistency group must be contained within a single primary disk subsystem.

**Correct Answer:** C

**QUESTION 6**

What is the standard topology for volume relationships in a DS8000 Global Mirror environment?

A. Volume 1 is in a Global Mirror relationship with Volume 2.
B. Volume 1 is in a Global Copy relationship with Volume 2. Volume 2 is in a FlashCopy relationship with Volume 3. Volume 1 and Volume 2 are also defined in the Global Mirror session.
C. Volume 1 is in a Global Copy relationship with Volume 2. Volume 2 is in a FlashCopy relationship with Volume 3. Volume 1 is also defined in a Global Mirror session.
D. Volume 1 is in a Metro Mirror relationship with Volume 2. Volume 2 is in a FlashCopy relationship with Volume 3.

**Correct Answer:** C

**QUESTION 7**
A D38870 administrator would access the GUI using:

A. The POWER7 controller
B. A browser
C. Only the HMC
D. A thick client

**Correct Answer:** B

**QUESTION 8**
A customer wants to be sure that all the volumes and LUNs associated with a program are copied at a consistent point in time.

Which disaster recovery function does the DS8000 support that this customer wishes to focus on?

A. Consistency Groups
B. Global Copy
C. FlashCopy Manager
D. Volume Copy

**Correct Answer:** A

**QUESTION 9**
Which of the following is true regarding Extent Pools on a D38000?

A. A Fixed Block LUN can span multiple Extent Pools.
B. A Fixed Block LUN can have extents from separate ranks within the same Extent Pool.
C. A Count Key Data Volume can span multiple Extent Pools.
D. A Count Key Data Volume cannot have extents from separate ranks within the same Extent Pool.

**Correct Answer:** B

**QUESTION 10**
A customer wants to place some HDDs in a DS8870. The customer also wants to enable Easy Tier with SSD for all HDDs, but wants to minimize the amount of SSDs purchased.

Which option would be valid?

A. SSDs come in half drive sets (8 drives). Purchasing a single half drive set, if configured properly, would enable all the HDDs to be in an Easy Tier pool at the lowest cost.
B. SDDs come in full drive sets (16 drives). Purchasing a single full drive set, if configured properly, would enable all the HDDs to be in an Easy Tier pool at the lowest cost.
C. IBM never recommends less than 50% of the configured drives be SSD, so the customer should match the number of HDDs with the same number of SSDs.
D. IBM recommends a 2:1 ratio of HDDs to SSDs, so the customer should purchase half the number of

SSDs compared to the number of HDDs purchased.

**Correct Answer:** B

**QUESTION 11**
When I/O Priority Manager is enabled, each volume in a D38800 is assigned to a performance group at the time of the volume creation.

What action will the DS8800 take to ensure that the most important volumes as defined to I/O Priority Manager receive the highest level of system resources available?

A. delay I/Os with lower performance policies
B. invoke Easy Tier for higher performance policy I/Os
C. move volumes with higher performance policy I/Os to faster disks or SSDS
D. allocate additional cache for volumes with higher performance policies

**Correct Answer:** A

**QUESTION 12**
What statement is correct regarding DS8870 Remote Pair FlashCopy?

A. D38700 Remote PairFlashCopyis initiated using IP network links between the data centers.
B. Using DS8870 Remote PairFlashCopydoes not require any existing Metro Mirror license.
C. With DS8870 Remote Pair FlashCopy, the local FlashCopy target is a Metro Mirror source.
D. DS8870 Remote Pair FlashCopy is a separate feature code, which must be included on the system order.

**Correct Answer:** C

**QUESTION 13**
The output of what tool is used as input to Disk Magic to most accurately model a Windows host that will be used with an IBM D38000?

A. Jetstress
B. Perimon
C. IOSTAT
D. NMON

**Correct Answer:** B

**QUESTION 14**
On the DS8870, which of the following drive options is a valid Easy Tier hybrid pool?

A. SLO and eMLO SSDs
B. eMLO SSDs and 5,400 RPM drives
C. 7,200 RPM drives
D. 15,000 RPM and 7,200 RPM drives

**Correct Answer:** D

**QUESTION 15**
A potential DS8OIJO customer would like to understand the size of the non-volatile storage (NVS) as compared to the overall size of the DS8000 processor memory.

Which technical feedback to the customer is correct?

A. NVS size is 4 GB for all cache sizes up to 64 GB. and 16 GB for all overall cache sizes over 64 GB
B. NVS size is a part of the SARC algorithm and adapts automatically depending on the actual workload

of the customer

C. NVS size can be adjusted according to customer demand using the CLI

D. NVS size is 1/32 scale (in minimum 1 GB) of the overall processor memory

**Correct Answer:** D

**QUESTION 16**
As the result of a performance sizing a D38870 system configuration must include 96 x 600 GB 10000 rpm SAS drives, and only 32 GB cache.

Which DS8870 system version should to be offered?

A. DS8870 business class configuration including 4 core processors

B. DS8870 enterprise class configuration including 2 core processors

C. DS8870 enterprise class configuration including 4 core processors

D. DS8870 business class configuration including 2 core processors

**Correct Answer:** D

**QUESTION 17**
A customer is looking to open a new data center and has asked about raised floor requirements to accommodate cabling for the DS8870.
What is the correct response?

A. D38870 power cables can only be connected under the floor as DS8870 always requires a raised floor for cooling purposes

B. Only a DS8870 with business class cabling can have top exit power cables

C. An RPQ is needed to allow top exit cabling for a DSSSJO with any expansion frames

D. There is a feature which allows power and EC cables to exit from the top of the DSSS7O frames

**Correct Answer:** D

**QUESTION 18**
A customer has a DS8000 with 100 TB raw capacity' installed and running in their data center. All storage is for open systems workloads. There is 30 TB of unused capacity'. There are no Advanced Functions installed, but after a presentation from the Business Partner they are interested in using FlashCopy to help reduce their overnight batch window.

How can this function be tested in compliance with the DS8000 licensing rules?

A. All Advanced Function software is loaded so it can be used in test mode for 45 days

B. AFlashCopylicense for 30 TB is needed

C. A FlashCopy license for 100 TB is needed

D. Use the DSEA website to request a temporary' license

**Correct Answer:** C

**QUESTION 19**
The exhibit represents a report from Capacity Magic. A customer wants to implement a mixed Open and System z environment. They will be using a combination of SSD, SAS and Nearline SAS drives. System z will require PAV. The NL-SAS drives will be used for FlashCopy targets for Open Systems and for Historical Report Data for z/OS. They wish to use Metro Mirror to replicate the Opens Systems production data to a remote site.

## Capacity report
Each combination of DDM type, RAID configuration and platform is a separate Extent pool

| | Install groups | RAID ranks | Physical Capacity (GB) | Extent Count | Effective Capacity (GB) | Effective Capacity (binary, GiB) |
|---|---|---|---|---|---|---|
| Total | – | 67 | 257600.00 | 179603 | 181450.49 | 168988.94 |
| **By DDM type** | | | | | | |
| FC 2308 (300 GB 2.5" 15k (SAS)) | 18 | 36 | 86400.00 | 69914 | 66139.03 | 61596.77 |
| FC 2608 (450 GB 2.5" 10k (SAS)) | 12 | 24 | 86400.00 | 60232 | 64673.62 | 60232.00 |
| FC 2858 (3 TB 3.5" 7.2k) | 3 | 3 | 72000.00 | 40327 | 41450.78 | 38604.05 |
| FC 6106/6108 (400 GB 2.5" SSD) | – | 4 | 12800.00 | 9130 | 9187.06 | 8556.12 |
| **By RAID type** | | | | | | |
| RAID 5 | – | 64 | 185600.00 | 139276 | 139999.71 | 130384.89 |
| RAID 6 | – | 3 | 72000.00 | 40327 | 41450.78 | 38604.05 |
| **By Extent Pool Platform** | | | | | | |
| zSeries | – | 39 | 116800.00 | 89221 | 84403.55 | 78606.94 |
| Open | – | 28 | 140800.00 | 90382 | 97046.93 | 90382.00 |

Which of the following best describes the minimum license requirements?

A.  OEL = 258TB, MM = 258TB, FlashCopy = 258TB, PAV = 258TB, EICON = Yes
B.  OEL = 258TB, MM = 141TB, FlashCopy = 141TB, PAV = 1 17TB, EICON = Yes
C.  OEL = 258TB, MM = S7TB, FlashCopy = 87TB, PAV = 87TB, FICON = Yes
D.  OEL = 173TB, MM = 87TB, FlashCopy = 48TB1 PAV = 87TB, FICON = Yes

**Correct Answer:** B

**QUESTION 20**
Which of the following statements about the three-site solution Metro z/QS Global Mirror (MzGM) is true?

A.  MzGM is a multi-target solution where the primary device is replicated both synchronously and asynchronously
B.  MzGM can be managed by GDPS and Tivoli Storage Productively Center
C.  MzGM does not support z/Linux data on CKD devices
D.  MzGM supports distributed systems data on PB devices

**Correct Answer:** A

**QUESTION 21**
The installation of a DSS000 cannot be performed by the Customer Engineer until the Customization and Configuration Worksheets have been completed.

In which document are these worksheets found?

A.  Pre-Sales Technical and Delivery Assessment (TDA)
B.  DS8000 Introduction and Planning Guide
C.  DS8000 Configuration and Options Guide
D.  DS8000 Architecture and Implementation Redbook

**Correct Answer:** B

**QUESTION 22**
A System z customer would like confirmation of the actual amount of additional storage capacity they will get if they add a drive set of 300 GB 15,000 rpm drives in a RAID 5 configuration.

Which tool would be used to provide this information?

A. RMF Magic
B. Disk Magic
C. Comprestimator
D. Capacity Magic

**Correct Answer:** D

**QUESTION 23**
With the DSS000, if a customer raises a Severity' I call with the Hardware or Software Support Center. IBM will work on the call 24 hours a day, seven days a week provided the customer does what?

A. Agrees to attend a daily teleconference and continues to emphasize the importance of the problem
B. Supplies all dumps, logs and traces that the device or component in error has produced
C. Escalates the problem within IBM to see if this route helps fix the issue first
D. Has people available to work 24 hours a day, seven days a week to match the Support Center's effort

**Correct Answer:** D

**QUESTION 24**
Shortly after the installation of a DSS000 and before Call Home has been fully set-up, the customer notices an error message relating to a failed DS8000 primary power supply.

What action should the customer take?

A. Wait for IBM to make contact
B. Raise a call with the IBM Hardware Support Center
C. Report it to their IBM or Business Partner pre-sales technical support person
D. Mention it to the IBM Customer Engineer at the next monthly review

**Correct Answer:** B

**QUESTION 25**
A Business Partner has just received a REP from a customer for new disk subsystems for their data centers which are 500 km apart. DS8000 Global Mirror will be proposed. The customer wants to manage the replication environment using off-the-shelf software rather than custom scripting. The customer already has EMC Symmetrix replicating between their data centers.

Which of the following should be proposed to manage the D58000 replication?

A. DS8000 Storage Manager GUI 6.3
B. Tivoli Storage FlashCopy Manager V3.1
C. EMC Recover Point 3.5
D. Tivoli Storage Productivity' Center V5.1

**Correct Answer:** D

**QUESTION 26**
A new D58000 mixed mainframe and open storage customer would like to connect older open (2 Gbps) and mainframe servers (4 Gbps) to the DS8000 system's 8 Gbps host adapters.

How can this be done?

A. through the GUI, adjust the required FOP ports for open to 2 Gbps and the FIOON ports for mainframe to 4 Gbps link speed
B. the DS8OIJO supports 4 Gbps for mainframe connection; the 2 Gbps open systems connection must be connected via an intermediate SAN
C. the customer needs to change the server's HBA5 to an 8 Gbps link speed type
D. the D58000 8 Gbps Host Adapter ports auto-negotiate to 4 Gbps and 2 Gbps link speed

**Correct Answer:** D

**QUESTION 27**
When Global Mirror and the local disk subsystem fails it usually is not possible to recover because the subsystem stops responding. The SNMP then sends the alerts that indicate there is a problem.

What triggers the initial recovery actions?

A. Total Storage Productivity Center for Data
B. The SNMP alerts are enough to trigger the recovery and then fix the problem
C. The problem can be fixed manually once the SNMP alerts are spotted
D. Once the SNMP alerts have been received the process will restart automatically

**Correct Answer:** C

**QUESTION 28**
A customer wants to add a new DSS8OFJ into a data center that is already in production. How is it possible to verify that the DS8800 is supported into the customer's SAN and server infrastructure?

A. Check the interoperability matrix
B. The D58800 is compatible with every SAN infrastructure
C. Check the System Storage Interoperation Center
D. If there are other DS8000 systems in the data center there is no need to check for any compatibility

**Correct Answer:** C

**QUESTION 29**
Within the IBM disk storage portfolio, which of the following capabilities is unique to the DSS000?

A. Three-site cascaded replication
B. Point-in-time copy with full copy
C. Thin provisioning for distributed systems
D. Cache mirroring for all write data from servers

**Correct Answer:** A

**QUESTION 30**
A customer has a mission-critical application with redundant fabrics. The customer plans to replace older EMC system with a DS8870 and a SAN Volume Controller (SVC).

Which statement best describes the impact of data migration on the production environment?

A. The production environment does not require an outage.
B. The production environment requires an outage to install the SVC.
C. The production environment requires an outage to install the D58870.
D. The production environment requires an outage to remove the EMC systems.

**Correct Answer:** B

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