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**Exam** : **C9020-563**

**Title** : IBM System Storage DS8000  
Technical Solutions V5

**Vendor** : IBM

**Version** : DEMO

**NO.1** Which action does the HMC perform if a problem arises with an IBM DS8884?

- A. The HMC alerts the local client technical specialist.
- B. The HMC initiates smart drive rebuild.
- C. The HMC calls home if enabled.
- D. The HMC logs an error in EREP.

**Answer:** C

Explanation:

If the heartbeat information does not reach IBM, a service call to the client will be made to investigate the status of the DS8000.

Note: The DS8000 also uses the Call Home facility to send proactive heartbeat information to IBM. A heartbeat is a small message with basic product information so that IBM knows the unit is operational. By sending heartbeats, both IBM and the client ensure that the HMC is always able to initiate a full Call Home to IBM in the case of an error.

References: <http://www.redbooks.ibm.com/redbooks/pdfs/sg248886.pdf>

IBM System Storage DS8000: Architecture and Implementation (November 2012), page 457

**NO.2** A client already has an IBM DS8886 implemented with RAID-10 protection for its production data.

The client now wants to implement Nearline drives in the same DS8886 for archive data.

Which data protection scheme should be recommended for the Nearline drives?

- A. RAID-6 because the time to rebuild Nearline drives would leave the array exposed for a long time with a single drive failure
- B. RAID-5 because this data is less critical than the production data and does not need the same level of data protection
- C. DRAID to provide faster re-build times for data on Nearline drives
- D. RAID-10 because this is the only protection scheme offered for Nearline drives

**Answer:** A

Explanation:

Note: The disk class, which is either enterprise or near-line.

Enterprise is a high-end disk drive and has the highest reliability.

Near-line is a low-end disk drive and has less reliability than enterprise disk drives.

For example, FC (Fibre Channel) is shown for some enterprise disk drives and SATA is shown for some near-line disk drives.

Other classes might include SSD (Solid State) and SAS.

References:

[https://www.ibm.com/support/knowledgecenter/en/ST5GLJ\\_8.2.1/com.ibm.storage.ssic.help.doc/f2c\\_effectivecapa\\_ds8880.html](https://www.ibm.com/support/knowledgecenter/en/ST5GLJ_8.2.1/com.ibm.storage.ssic.help.doc/f2c_effectivecapa_ds8880.html)

**NO.3** How should the DS8886 UPSs be connected to the facility power for redundancy?

- A. Two PDUs on a single circuit
- B. Both UPSs to the same circuit
- C. Daisy chain the DC-UPSs to a single circuit
- D. Each UPS to a different circuit

**Answer:** A

Explanation:

The main power area is at the rear of the expansion frame.

The power system in each frame is a pair of direct-current uninterruptible power supplies (DC-UPSs) with internal batteries.

References: <http://www-01.ibm.com/support/docview.wss?uid=ssg1S7005228&aid=1>

IBM DS8880 Version 8 Release 3 Introduction and Planning Guide, page 8

**NO.4** A service provider asks which option to use to logically separate the management of the data replication among two or more environments.

Which recommendation meets this provider's needs?

**A.** Encryption Groups

**B.** Consistency Groups

**C.** Volume Groups

**D.** Resource Groups

**Answer:** D

Explanation:

Resource groups for service providers offer these benefits:

References: <http://www.redbooks.ibm.com/redpapers/pdfs/redp4758.pdf>

IBM System Storage DS8000 Copy Services Scope Management and Resource Groups, page 5

**NO.5** Which technology does IBM recommend to secure remote support connections for the IBM DS8880 family?

**A.** Modem

**B.** Business-to-business VPN

**C.** SSH over IP

**D.** SSL

**Answer:** D

Explanation:

To achieve your security objectives on the DS8880 storage system, follow the recommended practices and actions.

References:

[https://www.ibm.com/support/knowledgecenter/en/ST5GLJ\\_8.1.1/com.ibm.storage.ssic.help.doc/f2c\\_securitybp.html](https://www.ibm.com/support/knowledgecenter/en/ST5GLJ_8.1.1/com.ibm.storage.ssic.help.doc/f2c_securitybp.html)

**NO.6** What is required for encryption on a new IBM DS8886?

**A.** Installation of Security Key Lifecycle Manager

**B.** Implementation of the NIST SP800-131a standard

**C.** Purchase of optional encryption capable drives

**D.** Integration with cryptographic HMC

**Answer:** A

Explanation:

The DS8000 supports data encryption in systems that are equipped with Full Disk Encryption (FDE) capable hard disk drives (HDDs) and flash devices (SSD in storage enclosure and in High Performance Flash Enclosure (HPFE)).

The disk encryption hardware is used with IBM Security Key Lifecycle Manager or Gemalto SafeNet

KeySecure.

References: <http://www.redbooks.ibm.com/redpapers/pdfs/redp4500.pdf>

IBM DS8880 Data-at-rest Encryption (December 2016), page 22