



# HCE-3700<sup>Q&As</sup>

Hitachi Vantara Certified Expert - Performance architect

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**QUESTION 1**

You are partitioning a VSP G1000 with eight VSDs and 1024 GB cache, and are creating an 80 GB CLPR. In this scenario, how much cache does each VSD blade initially reference in the CLPR?

- A. 10 GB
- B. 80 GB
- C. 640 GB
- D. 1024 GB

Correct Answer: D

References: <https://support.hitachivantara.com/download/epcra/rd80124.pdf>

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**QUESTION 2**

Response times in an HDP pool have been increasing consistently with each additional workload during a large scale migration. The response times may become unacceptable with subsequent migrations. The purchase of additional equipment is an acceptable solution.

What are two valid actions in this scenario? (Choose two.)

- A. Increase the pool free space and alert thresholds to the maximum permitted levels.
- B. Expand the pool with volumes from new parity groups to reduce utilization levels.
- C. Apply the SOM to provide tier property information that assesses suitability for HDT and deployment of flash.
- D. Use more, smaller, pool LDEVs per parity group to improve the efficiency and utilization of the queues.

Correct Answer: AC

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**QUESTION 3**

Immediately after migrating to a new HDT pool, Hitachi Tuning Manager shows that Tier 1 SSD, Tier 2 SAS, and Tier 3 NL-SAS are not busy for performance but Tier 1 and Tier 2 are over utilized for capacity.

From this analysis, which action should be performed?

- A. Re-asses after HDT performs page migration cycles.
- B. Add more drives to Tier 1.
- C. Add more drives to Tier 1 and Tier 2.
- D. Remove the SSD tier.



Correct Answer: C

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#### QUESTION 4

When testing an external LUN with default mapping on two paths, performance appears constrained and the utilization of the RAID group in the external storage system never exceeds 35% busy no matter how many test threads are generated. You want to increase the utilization of the external RAID group.

Which two actions will accomplish this task? (Choose two.)

- A. Increase the external path LUN queue depth setting.
- B. Increase the number of LUNs mapped from the external RAID group.
- C. Change Cache Mode to "Disabled".
- D. Increase the server HBA LUN queue depth to 64.

Correct Answer: AC

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#### QUESTION 5

A 10K RPM Small Form Factor 600 GB disk drive has a 3 ms average rotational latency and a 4 ms average seek time.

How many random read IOPS would you expect from a 4D+4D RAID group using these drives before any consideration for cache hits or queuing optimization benefits?

- A. approximately 570 IOPS
- B. approximately 1,140 IOPS
- C. approximately 1,530 IOPS
- D. approximately 2,280 IOPS

Correct Answer: D

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#### QUESTION 6

A customer is replicating VSP G1000 production data using HUR. The customer experiences a network outage. During the outage, the customer reported an increase in response times.

Which two actions would minimize this problem during future network outages? (Choose two.)

- A. Leave the HUR SOM in the default setting.
- B. Set the SOM that suspends pairs during outages.



C. Add volumes in the journal.

D. Increase the size of the Journal Pool capacity by adding additional parity groups.

Correct Answer: BD

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#### QUESTION 7

Which two statements are true regarding HDP pools? (Choose two.)

A. Using the largest possible pools is a recommended practice.

B. Exposure to failure and recovery from failure must be considered when recommending the maximum size of a pool.

C. HDP pools can be used for sizing HDT pools.

D. Tier migration is based on performance and space capacity.

Correct Answer: AC

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#### QUESTION 8

How does the HDLM Extended Round Robin algorithm impact sequential I/O?

A. It continues to use the same path for a user-specified count of sequential I/O requests.

B. It remembers a user-determined number of addresses to better implement sequence detection for the storage.

C. It buffers and reorders I/O requests to improve sequence detection by the storage.

D. It makes a path decision for every I/O request.

Correct Answer: A

References: <https://dokumen.tips/documents/dynamic-link-manager-hitachi-vantara-support-file-systems-for-hdlmwhen-volume.html>

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#### QUESTION 9

A customer has a VSP G800 storage system with an HDT pool with internal SAS drives and a virtualized third-party array using SATA RAID 6. The virtualized array is connected to the VSP G800 using four 8 Gbps FC paths. The customer reports performance problems on an OLTP application deployed on a virtualized server using the HDT pool.

What are two reasons for this problem? (Choose two.)

A. The workload includes significant random writes to SATA over RAID 6.

B. The tier relocation is not assisting the OLTP application.

C. The size of Tier 1 is not sufficient to accumulate all of the hot pages.



D. The speed of the FC links is insufficient.

Correct Answer: AD

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#### QUESTION 10

A user reports fluctuating LUN response times every day between 8:00 AM and 9:00 AM as users arrive and log in.

How do you identify this condition using Hitachi Tuning Manager?

- A. View LUN response times and RAID group utilization (% busy) averaged over the 60 minutes.
- B. View the random write counts every minute.
- C. View LUN response times and RAID group utilization (% busy) every minute.
- D. View LUN response times and correlate against the Cache Write Pending level every 15 minutes.

Correct Answer: A

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