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Exam : **HPE1-H02**

Title : Advanced HPE Compute Solutions

Version : DEMO

1.Which characteristic best describes an advanced computing workload suitable for high-performance computing (HPC) environments?

A. Real-time data processing

B. Low power consumption

C. Predictable scaling

D. High parallel processing requirements

Answer: D

Explanation:

HPC environments require high parallel processing capabilities to handle complex and compute-intensive tasks, such as simulations and scientific calculations.

2.What is the primary advantage of GPU-accelerated computing in advanced workloads?

A. Faster parallel processing of large datasets

B. Enhanced power efficiency

C. Improved single-thread performance

D. Better performance in virtualized environments

Answer: A

Explanation:

GPUs excel at parallel processing, making them ideal for workloads like machine learning, AI, and large-scale simulations that require simultaneous processing of massive datasets.

3.Which type of memory is commonly used in advanced computing environments to support memory-intensive workloads?

A. DDR3

B. LPDDR4

C. DDR5

D. GDDR6

Answer: C

Explanation:

DDR5 memory provides higher bandwidth and efficiency compared to its predecessors, making it suitable for memory-intensive tasks in advanced computing environments.

4.What fabric technology is most commonly associated with high-speed interconnects in HPC clusters?

A. Fibre Channel

B. Ethernet

C. InfiniBand

D. SAS

Answer: C

Explanation:

InfiniBand offers low latency and high bandwidth, making it ideal for high-speed interconnects in HPC and advanced computing clusters.

5.Which of the following is a typical characteristic of a workload that would benefit from a composable infrastructure?

A. Static resource allocation

B. Dynamic resource needs

C. Minimal network I/O

D. Low computational demands

Answer: B

Explanation:

Composable infrastructure allows for the dynamic allocation of resources like CPU, storage, and networking, which is ideal for workloads with variable resource needs.