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.