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It is carefully edited and reviewed by our experts. The design of the content conforms to the examination outline. Through the practice of our NCA-AIIO study materials, you can grasp the intention of the examination organization accurately. The number of its test questions is several times of the traditional problem set, which basically covers all the knowledge points to be mastered in the exam. You only need to review according to the content of our NCA-AIIO Study Materials, no need to refer to other materials. With the help of our NCA-AIIO study materials, your preparation process will be relaxed and pleasant.

NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	• AI Operations: This section of the exam measures the skills of data center operators and encompasses the management of AI environments. It requires describing essentials for AI data center management, monitoring, and cluster orchestration. Key topics include articulating measures for monitoring GPUs, understanding job scheduling, and identifying considerations for virtualizing accelerated infrastructure. The operational knowledge also covers tools for orchestration and the principles of MLOps.
Topic 2	• Essential AI knowledge: Exam Weight: This section of the exam measures the skills of IT professionals and covers foundational AI concepts. It includes understanding the NVIDIA software stack, differentiating between AI, machine learning, and deep learning, and comparing training versus inference. Key topics also involve explaining the factors behind AI's rapid adoption, identifying major AI use cases across industries, and describing the purpose of various NVIDIA solutions. The section requires knowledge of the software components in the AI development lifecycle and an ability to contrast GPU and CPU architectures.
Topic 3	• AI Infrastructure: This section of the exam measures the skills of IT professionals and focuses on the physical and architectural components needed for AI. It involves understanding the process of extracting insights from large datasets through data mining and visualization. Candidates must be able to compare models using statistical metrics and identify data trends. The infrastructure knowledge extends to data center platforms, energy-efficient computing, networking for AI, and the role of technologies like NVIDIA DPUs in transforming data centers.

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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q14-Q19):

NEW QUESTION # 14
You are working with a team of data scientists on an AI project where multiple machine learning models are being trained to predict customer churn. The models are evaluated based on the Mean Squared Error (MSE) as the loss function. However, one model consistently shows a higher MSE despite having a more complex architecture compared to simpler models. What is the most likely reason for the higher MSE in the more complex model?

- A. Incorrect calculation of the loss function
- B. Underfitting due to insufficient model complexity
- C. Overfitting to the training data
- D. Low learning rate in model training

Answer: C

Explanation:
A complex model with higher MSE than simpler ones likely suffers from overfitting, where it learns training data noise rather than general patterns, reducing test performance. NVIDIA's training workflows (e.g., DGX, RAPIDS) emphasize regularization (e.g., dropout) to mitigate this, common in deep learning.
A low learning rate (Option A) slows convergence but doesn't inherently raise MSE. Incorrect loss calculation (Option C) would affect all models. Underfitting (Option D) contradicts the model's complexity.
Overfitting is NVIDIA-aligned for such scenarios.

NEW QUESTION # 15
Which type of GPU core was specifically designed to realistically simulate the lighting of a scene?

- A. CUDA Cores
- B. Tensor Cores
- C. Ray Tracing Cores

Answer: C

Explanation:
Ray Tracing Cores, introduced in NVIDIA's RTX architecture, are specialized hardware units built to accelerate ray-tracing computations-simulating light interactions (e.g., reflections, shadows) for photorealistic rendering in real time. CUDA Cores handle general-purpose parallel tasks, and Tensor Cores optimize matrix operations for AI, but only Ray Tracing Cores target lighting simulation.
(Reference: NVIDIA GPU Architecture Whitepaper, Section on Ray Tracing Cores)

NEW QUESTION # 16
How many 1 Gb Ethernet in-band network connections are in a DGX H100 system?

- A. 0
- B. 1
- C. 2

Answer: C

Explanation:
The DGX H100 system uses high-speed NVIDIA ConnectX-7 QSFP56 ports (supporting 10 GbE and above) for in-band management and storage traffic, with no 1 Gb Ethernet interfaces allocated to in-band networks. A single 1 GbE RJ45 port exists, but it's reserved for out-of-band Baseboard Management Controller (BMC) tasks, not in-band connectivity.
(Reference: NVIDIA DGX H100 System Documentation, Networking Section)

NEW QUESTION # 17
When virtualizing an infrastructure that includes GPUs to support AI workloads, what is one critical factor to consider to ensure optimal performance?

- A. Increase the number of virtual CPUs assigned to each VM
- B. Disable hyper-threading on the host machine
- C. Assign more storage to each virtual machine
- D. Use GPU sharing technologies, like NVIDIA GRID, to allocate resources dynamically

Answer: D

Explanation:
Using GPU sharing technologies like NVIDIA GRID (A) is a critical factor for optimal performance in a virtualized AI infrastructure. NVIDIA GRID (or its successor, NVIDIA vGPU) enables dynamic allocation of GPU resources across virtual machines (VMs), allowing multiple AI workloads to share a physical GPU efficiently. This ensures high performance by providing each VM with direct GPU acceleration tailored to its needs, while maximizing resource utilization-keyfor AI tasks like training or inference.
* Assigning more storage(B) improves I/O but doesn't directly enhance GPU performance for compute- heavy AI workloads.
* Increasing virtual CPUs(C) boosts CPU capacity, but AI workloads rely primarily on GPU acceleration, not vCPUs.
* Disabling hyper-threading(D) might reduce CPU contention but doesn't address GPU virtualization needs.
NVIDIA's virtualization documentation emphasizes vGPU/GRID for AI performance (A).

NEW QUESTION # 18
What enables moving data between GPU memory and local or remote storage without using the CPU?

- A. InfiniBand
- B. GPUDirect Storage
- C. NVLink
- D. GPUDirect P2P

Answer: B

Explanation:
NVIDIA GPUDirect Storage enables direct data paths between GPU memory and local or remote storage (e.
g., NVMe over fabrics), bypassing the CPU and host memory. This maximizes throughput and minimizes latency in AI data pipelines. NVLink connects GPUs, GPUDirect P2P facilitates GPU-to-GPU transfers, and InfiniBand is a network fabric, but only GPUDirect Storage targets storage access.
(Reference: NVIDIA GPUDirect Storage Documentation, Overview Section)

NEW QUESTION # 19
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