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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 (Q24-Q29):

NEW QUESTION # 24
You are working on a project that involves both real-time AI inference and data preprocessing tasks. The AI models require high throughput and low latency, while the data preprocessing involves complex logic and diverse data types. Given the need to balance these tasks, which computing architecture should you prioritize for each task?

- A. Prioritize GPUs for AI inference and CPUs for data preprocessing
- B. Deploy AI inference on CPUs and data preprocessing on FPGAs
- C. Use GPUs for both AI inference and data preprocessing
- D. Use CPUs for both AI inference and data preprocessing

Answer: A

Explanation:
Prioritizing GPUs for AI inference and CPUs for data preprocessing is the best architecture to balance these tasks. GPUs excel at parallel computation, making them ideal for high-throughput, low-latency inference using NVIDIA tools like TensorRT or Triton. CPUs, with fewer but more powerful cores, handle complex, sequential preprocessing tasks (e.g., data cleaning, branching logic) efficiently, as noted in NVIDIA's "AI Infrastructure for Enterprise" and "GPU Architecture Overview." This hybrid approach leverages each processor's strengths, optimizing overall performance.
Using GPUs for both (A) underutilizes CPUs for preprocessing. CPUs for both (B) sacrifices inference performance. CPUs for inference and FPGAs for preprocessing (D) misaligns with NVIDIA GPU strengths and adds complexity. NVIDIA recommends this CPU-GPU division.

NEW QUESTION # 25
Your company is planning to deploy a range of AI workloads, including training a large convolutional neural network (CNN) for image classification, running real-time video analytics, and performing batch processing of sensor data. What type of infrastructure should be prioritized to support these diverse AI workloads effectively?

- A. A hybrid cloud infrastructure combining on-premise servers and cloud resources
- B. CPU-only servers with high memory capacity
- C. A cloud-based infrastructure with serverless computing options
- D. On-premise servers with large storage capacity

Answer: A

Explanation:
Diverse AI workloads-training CNNs (compute-heavy), real-time video analytics (latency-sensitive), and batch sensor processing (data-intensive)-require flexible, scalable infrastructure. A hybrid cloud infrastructure, combining on-premise NVIDIA GPU servers (e.g., DGX) with cloud resources (e.g., DGX Cloud), provides the best of both: on-premise control for sensitive data or latency-critical tasks and cloud scalability for burst compute or storage needs. NVIDIA's hybrid solutions support this versatility across workload types.
On-premise alone (Option A) lacks scalability. CPU-only servers (Option B) can't handle GPU-accelerated AI efficiently. Serverless cloud (Option C) suits lightweight tasks, not heavy AI workloads. Hybrid cloud is NVIDIA's strategic fit for diverse AI.

NEW QUESTION # 26
How many 1 Gb Ethernet in-band network connections are in a DGX H100 system?

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

Answer: A

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 # 27
A healthcare provider is deploying an AI-driven diagnostic system that analyzes medical images to detect diseases. The system must operate with high accuracy and speed to support doctors in real-time. During deployment, it was observed that the system's performance degrades when processing high-resolution images in real-time, leading to delays and occasional misdiagnoses. What should be the primary focus to improve the system's real-time processing capabilities?

- A. Increase the system's memory to store more images concurrently
- B. Optimize the AI model's architecture for better parallel processing on GPUs
- C. Use a CPU-based system for image processing to reduce the load on GPUs
- D. Lower the resolution of input images to reduce the processing load

Answer: B

Explanation:
Real-time medical image analysis demands high accuracy and speed, which degrade with high-resolution images due to computational complexity. Optimizing the AI model's architecture for better parallel processing on GPUs-using techniques like pruning, quantization, or TensorRT optimization-reduces latency while maintaining accuracy. NVIDIA GPUs (e.g., A100) and TensorRT are designed to accelerate such workloads, making this the primary focus for improvement in DGX or healthcare-focused deployments.
More memory (Option A) helps with batching but doesn't address processing speed. Switching to CPUs (Option C) slows performance, as they lack GPU parallelism. Lowering resolution (Option D) risks accuracy loss, undermining diagnostics. Model optimization aligns with NVIDIA's real-time AI strategy.

NEW QUESTION # 28
Your AI data center is experiencing increased operational costs, and you suspect that inefficient GPU power usage is contributing to the problem. Which GPU monitoring metric would be most effective in assessing and optimizing power efficiency?

- A. Performance Per Watt
- B. Fan Speed
- C. GPU Core Utilization
- D. GPU Memory Usage

Answer: A

Explanation:
Performance Per Watt is the most effective GPU monitoring metric for assessing and optimizing power efficiency in an AI data center. This metric measures the computational output (e.g., FLOPS) per unit of power consumed (watts), directly indicating how efficiently the GPU is using energy. Inefficient power usage can drive up operational costs, especially in large-scale GPU clusters like those powered by NVIDIA DGX systems. By monitoring and optimizing Performance Per Watt, administrators can adjust workloads, clock speeds (e.g., via NVIDIA GPU Boost), or scheduling to maximize efficiency while maintaining performance, as recommended in NVIDIA's "Data Center GPU Manager (DCGM)" documentation.
Fan Speed (B) relates to cooling but does not directly measure power efficiency. GPU Memory Usage (C) tracks memory allocation, not energy consumption. GPU Core Utilization (D) shows workload distribution but lacks insight into power efficiency. NVIDIA's "DCGM User Guide" and "AI Infrastructure and Operations Fundamentals" emphasize Performance Per Watt for energy optimization.

NEW QUESTION # 29
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