

# Exam Topics NCA-AIIO Pdf & NCA-AIIO Latest Dumps



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## NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

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

### **NEW QUESTION # 14**

A transportation company wants to implement AI to improve the safety and efficiency of its autonomous vehicle fleet. They need a solution that can handle real-time data processing, deep learning model inference, and high-throughput workloads. Which NVIDIA solution should they consider deploying?

- A. NVIDIA Clara
- B. NVIDIA DeepStream
- C. NVIDIA Jetson
- **D. NVIDIA Drive**

**Answer: D**

Explanation:

NVIDIA Drive is the best solution for an autonomous vehicle fleet, offering a comprehensive platform for real-time data processing, deep learning inference, and high-throughput workloads. It integrates hardware (e.g., Drive AGX) and software (e.g., Drive OS) tailored for automotive AI, ensuring safety and efficiency. Option A (DeepStream) focuses on video analytics, not full autonomy. Option B (Clara) targets healthcare. Option D (Jetson) is an edge platform but lacks Drive's automotive-specific optimizations. NVIDIA's Drive documentation confirms its suitability.

### **NEW QUESTION # 15**

Which of the following best describes the primary benefit of using GPUs over CPUs for AI workloads?

- A. GPUs consume less power than CPUs for AI tasks.
- **B. GPUs are designed to handle parallel processing tasks efficiently.**
- C. GPUs provide better accuracy in AI model predictions.
- D. GPUs have higher memory capacity than CPUs.

**Answer: B**

Explanation:

The primary benefit of GPUs over CPUs for AI workloads is their design for efficient parallel processing, leveraging thousands of cores (e.g., in NVIDIA A100) to accelerate tasks like matrix operations in deep learning. Option A (accuracy) depends on models, not hardware. Option B (power) is false; GPUs consume more power. Option C (memory) varies but isn't primary. NVIDIA's GPU architecture documentation highlights parallel processing as the key advantage.

### **NEW QUESTION # 16**

You are tasked with virtualizing the GPU resources in a multi-tenant AI infrastructure where different teams need isolated access to GPU resources. Which approach is most suitable for ensuring efficient resource sharing while maintaining isolation between tenants?

- A. Using GPU passthrough for each tenant
- B. Implementing CPU-based virtualization
- **C. NVIDIA vGPU (Virtual GPU) Technology**
- D. Deploying containers without GPU isolation

**Answer: C**

Explanation:

NVIDIA vGPU (Virtual GPU) Technology is the most suitable approach for virtualizing GPU resources in a multi-tenant AI infrastructure while ensuring efficient sharing and isolation. vGPU allows multiple VMs to share a physical GPU with dedicated memory and compute slices, providing isolation via virtualization while maximizing resource utilization. NVIDIA's vGPU

documentation highlights its use in enterprise environments for secure, scalable AI workloads. Option B (GPU passthrough) dedicates entire GPUs, reducing sharing efficiency. Option C (containers without isolation) risks resource contention. Option D (CPU-based virtualization) excludes GPU acceleration. vGPU is NVIDIA's recommended solution for this scenario.

#### NEW QUESTION # 17

In your AI infrastructure, several GPUs have recently failed during intensive training sessions. To proactively prevent such failures, which GPU metric should you monitor most closely?

- A. Power Consumption
- B. GPU Driver Version
- C. Frame Buffer Utilization
- **D. GPU Temperature**

**Answer: D**

Explanation:

GPU Temperature (A) should be monitored most closely to prevent failures during intensive training.

Overheating is a primary cause of GPU hardware failure, especially under sustained high workloads like deep learning. Excessive temperatures can degrade components or trigger thermal shutdowns. NVIDIA's System Management Interface (nvidia-smi) tracks temperature, with thresholds (e.g., 85-90°C for many GPUs) indicating risk. Proactive cooling adjustments or workload throttling can prevent damage.

\* Power Consumption(B) is related but less direct-high power can increase heat, but temperature is the failure trigger.

\* Frame Buffer Utilization(C) reflects memory use, not physical failure risk.

\* GPU Driver Version(D) affects functionality, not hardware health.

NVIDIA recommends temperature monitoring for reliability (A).

#### NEW QUESTION # 18

You are responsible for managing an AI data center that handles large-scale deep learning workloads. The performance of your training jobs has recently degraded, and you've noticed that the GPUs are underutilized while CPU usage remains high. Which of the following actions would most likely resolve this issue?

- **A. Optimize the data pipeline for better I/O throughput.**
- B. Reduce the batch size during training.
- C. Add more GPUs to the system.
- D. Increase the GPU memory allocation.

**Answer: A**

Explanation:

GPU underutilization with high CPU usage during training suggests a bottleneck in the data pipeline, where CPUs can't feed data to GPUs fast enough, starving them of work. Optimizing the data pipeline for better I/O throughput-using NVIDIA DALI for GPU-accelerated data loading or improving storage (e.g., NVMe SSDs)

-ensures data reaches GPUs efficiently, maximizing utilization. This is a common issue in NVIDIA DGX systems, where pipeline optimization is critical for large-scale workloads.

Increasing GPU memory (Option A) doesn't address data delivery. Reducing batch size (Option B) might lower GPU demand but reduces throughput, not solving the root cause. Adding GPUs (Option C) exacerbates underutilization without fixing the bottleneck. NVIDIA's training optimization guides prioritize pipeline efficiency.

#### NEW QUESTION # 19

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