

# 2026 NCA-AIIO–100% Free Practical Information | Reliable NVIDIA-Certified Associate AI Infrastructure and Operations Test Tips



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## NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	<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>
Topic 2	<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 3	<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>
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>> NCA-AIIO Practical Information <<

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### NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q21-Q26):

#### NEW QUESTION # 21

Which of the following aspects have led to an increase in the adoption of AI? (Choose two.)

- A. High-powered GPUs
- B. Moore's Law
- C. Large amounts of data
- D. Rule-based machine learning

**Answer: A,C**

Explanation:

The surge in AI adoption is driven by two key enablers: high-powered GPUs and large amounts of data. High-powered GPUs provide the massive parallel compute capabilities necessary to train complex AI models, particularly deep neural networks, by processing numerous operations simultaneously, significantly reducing training times. Simultaneously, the availability of large datasets-spanning text, images, and other modalities-provides the raw material that modern AI algorithms, especially data-hungry deep learning models, require to learn patterns and make accurate predictions. While Moore's Law (the doubling of transistor counts) has historically aided computing, its impact has slowed, and rule-based machine learning has largely been supplanted by data-driven approaches.

(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on AI Adoption Drivers)

#### NEW QUESTION # 22

What is the maximum number of MIG instances that an H100 GPU provides?

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

**Answer: A**

Explanation:

The NVIDIA H100 GPU supports up to 7 Multi-Instance GPU (MIG) partitions, allowing it to be divided into seven isolated instances for multi-tenant or mixed workloads. This capability leverages the H100's architecture to maximize resource flexibility and efficiency, with 7 being the documented maximum.

(Reference: NVIDIA H100 GPU Documentation, MIG Section)

#### NEW QUESTION # 23

You are managing an AI-driven autonomous vehicle project that requires real-time decision-making and rapid processing of large data volumes from sensors like LiDAR, cameras, and radar. The AI models must run on the vehicle's onboard hardware to ensure low latency and high reliability. Which NVIDIA solutions would be most appropriate to use in this scenario? (Select two)

- A. NVIDIA GeForce RTX 3080
- B. NVIDIA DGX A100
- C. NVIDIA DRIVE AGX Pegasus
- D. NVIDIA Jetson AGX Xavier
- E. NVIDIA Tesla T4

**Answer: C,D**

Explanation:

For an autonomous vehicle requiring onboard, low-latency AI processing:

\* NVIDIA Jetson AGX Xavier(B) is a compact, power-efficient edge AI platform designed for real-time processing in embedded systems like vehicles. It supports sensor fusion (LiDAR, cameras) and deep learning inference with high reliability.

\* NVIDIA DRIVE AGX Pegasus(D) is a purpose-built automotive AI platform for Level 4/5 autonomy, delivering high-performance computing for sensor data processing and decision-making with automotive-grade reliability.

\* NVIDIA DGX A100(A) is a data center system, unsuitable for onboard vehicle use due to size and power requirements.

\* NVIDIA GeForce RTX 3080(C) is a consumer GPU for gaming, lacking automotive certification or edge optimization.

\* NVIDIA Tesla T4(E) is a data center GPU for inference, not designed for vehicle onboard processing.

NVIDIA's DRIVE and Jetson platforms are tailored for autonomous vehicles (B and D).

#### NEW QUESTION # 24

How is the architecture different in a GPU versus a CPU?

- A. A GPU is a single large and complex core to support massive compute operations.
- B. A GPU is architected to support massively parallel execution of simple instructions.
- C. A GPU acts as a PCIe controller to maximize bandwidth.

**Answer: B**

Explanation:

A GPU's architecture is designed for massive parallelism, featuring thousands of lightweight cores that execute simple instructions across vast data elements simultaneously-ideal for tasks like AI training. In contrast, a CPU has fewer, complex cores optimized for sequential execution and branching logic. GPUs don't function as PCIe controllers (a hardware role), nor are they single-core designs, making the parallel execution focus the key differentiator. (Reference: NVIDIA GPU Architecture Whitepaper, Section on GPU Design Principles)

#### NEW QUESTION # 25

Your organization is building a hybrid cloud system that needs to handle a variety of tasks, including complex scientific simulations, database management, and training large AI models. You need to allocate resources effectively. How do GPU and CPU architectures compare in terms of handling these different tasks?

- A. GPUs should be used exclusively for scientific simulations, and CPUs for everything else.
- B. CPUs should be used for training AI models, while GPUs are better for database management.
- C. GPUs are better for parallel tasks like AI model training and simulations, while CPUs are better for sequential tasks like database management.
- D. GPUs are superior for all types of workloads in this scenario.

**Answer: C**

Explanation:

GPUs excel at parallel tasks like AI model training and scientific simulations due to their thousands of cores optimized for simultaneous computations (e.g., matrix operations), while CPUs are better suited for sequential tasks like database management, which rely on high clock speeds and single-threaded performance. NVIDIA's architecture documentation highlights GPUs' role in accelerating parallel workloads (e.g., via CUDA), as seen in DGX systems for AI training, while CPUs handle general-purpose tasks efficiently. Option B reverses this, contradicting NVIDIA's design. Option C oversimplifies by limiting GPUs to simulations. Option D ignores CPUs' strengths. NVIDIA's hybrid cloud solutions align with Option A for effective resource allocation.

## NEW QUESTION # 26

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