# NVIDIA NCA-AIIO Practice Exam Questions - Valid NCA-AIIO Dumps



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## NVIDIA NCA-AIIO Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • 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. |
| Topic 2 | • 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 3 | • 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. |

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## NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q33-Q38):

**NEW QUESTION # 33**
You manage a large-scale AI infrastructure where several AI workloads are executed concurrently across multiple NVIDIA GPUs. Recently, you observe that certain GPUs are underutilized while others are overburdened, leading to suboptimal performance and extended processing times. Which of the following strategies is most effective in resolving this imbalance?

- A. Disabling GPU overclocking to normalize performance
- B. Implementing dynamic GPU load balancing across the infrastructure
- C. Reducing the batch size for all AI workloads
- D. Increasing the power limit on underutilized GPUs

**Answer: B**

**NEW QUESTION # 34**
A financial services company is using an AI model for fraud detection, deployed on NVIDIA GPUs. After deployment, the company notices a significant delay in processing transactions, which impacts their operations. Upon investigation, it's discovered that the AI model is being heavily used during peak business hours, leading to resource contention on the GPUs. What is the best approach to address this issue?

- A. Increase the batch size of input data for the AI model
- B. Switch to using CPU resources instead of GPUs for processing
- C. Implement GPU load balancing across multiple instances
- D. Disable GPU monitoring to free up resources

**Answer: C**

**Explanation:**
Implementing GPU load balancing across multiple instances is the best approach to address resource contention and delays in a fraud detection system during peak hours. Load balancing distributes inference workloads across multiple NVIDIA GPUs (e.g., in a DGX cluster or Kubernetes setup with Triton Inference Server), ensuring no single GPU is overwhelmed. This maintains low latency and high throughput, as recommended in NVIDIA's "AI Infrastructure and Operations Fundamentals" and "Triton Inference Server Documentation" for production environments.
Switching to CPUs (A) sacrifices GPU performance advantages. Disabling monitoring (B) doesn't address contention and hinders diagnostics. Increasing batch size (C) may worsen delays by overloading GPUs. Load balancing is NVIDIA's standard solution for peak load management.

**NEW QUESTION # 35**
You are part of a team analyzing the results of an AI model training process across various hardware configurations. The objective is to determine how different hardware factors, such as GPU type, memory size, and CPU-GPU communication speed, affect the model's training time and final accuracy. Which analysis method would best help in identifying trends or relationships between hardware factors and model performance?

- A. Plot a scatter plot of model performance against GPU type.
- B. Use a bar chart to compare the average training times across different hardware configurations.
- C. Create a heatmap of CPU-GPU communication speed versus training time.
- D. Conduct a regression analysis with hardware factors as independent variables and model performance metrics as dependent variables.

**Answer: D**

Explanation:

Conducting a regression analysis with hardware factors (e.g., GPU type, memory size, CPU-GPU communication speed) as independent variables and model performance metrics (e.g., training time, accuracy) as dependent variables is the most effective method to identify trends and relationships. Regression analysis quantifies the impact of each factor, revealing correlations and statistical significance, which is critical for understanding complex interactions in AI training on NVIDIA GPUs. Option A (heatmap) visualizes only one relationship (communication speed vs. time), missing broader trends. Option B (scatter plot) is limited to GPU type and performance, lacking multi-factor analysis. Option C (bar chart) shows averages but not relationships. NVIDIA's performance optimization guides recommend statistical methods like regression for hardware analysis, aligning with this approach.

## NEW QUESTION # 36
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 # 37
Which solution should be recommended to support real-time collaboration and rendering among a team?

- A. A DGX SuperPOD.
- B. A cluster of servers with NVIDIA T4 GPUs in each server.
- C. An NVIDIA Certified Server with RTX-based GPUs.

**Answer: C**

Explanation:
An NVIDIA Certified Server with RTX GPUs is optimized for real-time collaboration and rendering, supporting NVIDIA Virtual Workstation (vWS) software. This setup enables low-latency, multi-user graphics workloads, ideal for team-based design or visualization. T4 GPUs focus on inference efficiency, and DGX SuperPOD targets large-scale AI training, not collaborative rendering.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on GPU Selection for Collaboration)

## NEW QUESTION # 38
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