

NVIDIA

Exam Questions NCA-AIIO

NVIDIA-Certified Associate AI Infrastructure and Operations



NEW QUESTION 1

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

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

Answer: C

NEW QUESTION 2

Which of the following NVIDIA tools is primarily used for monitoring and managing AI infrastructure in the enterprise?

- A. NVIDIA NeMo System Manager
- B. NVIDIA Data Center GPU Manager
- C. NVIDIA DGX Manager
- D. NVIDIA Base Command Manager

Answer: D

NEW QUESTION 3

Which architecture is the core concept behind large language models?

- A. BERT Large model
- B. State space model
- C. Transformer model
- D. Attention model

Answer: C

NEW QUESTION 4

What is a key benefit of using NVIDIA GPUDirect RDMA in an AI environment?

- A. It increases the power efficiency and thermal management of GPUs.
- B. It reduces the latency and bandwidth overhead of remote memory access between GPUs.
- C. It enables faster data transfers between GPUs and CPUs without involving the operating system.
- D. It allows multiple GPUs to share the same memory space without any synchronization.

Answer: C

NEW QUESTION 5

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

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

Answer: B

NEW QUESTION 6

Which NVIDIA software provides the capability to virtualize a GPU?

- A. Horizon
- B. vGPU
- C. virtGPU

Answer: B

NEW QUESTION 7

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

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

Answer: D

NEW QUESTION 8

When monitoring a GPU-based workload, what is GPU utilization?

- A. The maximum amount of time a GPU will be used for a workload.
- B. The GPU memory in use compared to available GPU memory.
- C. The percentage of time the GPU is actively processing data.

D. The number of GPU cores available to the workload.

Answer: C

NEW QUESTION 9

Which NVIDIA parallel computing platform and programming model allows developers to program in popular languages and express parallelism through extensions?

- A. CUDA
- B. CUMML
- C. CUGRAPH

Answer: A

NEW QUESTION 10

What is the name of NVIDIA's SDK that accelerates machine learning?

- A. Clara
- B. RAPIDS
- C. cuDNN

Answer: C

NEW QUESTION 10

How is out-of-band management utilized by network operators in an AI environment?

- A. It is used to remotely manage and troubleshoot network devices independently of the production network.
- B. It is used to directly manage the AI model's learning rate during training sessions.
- C. It is used to increase the computational power of AI models by adapting additional processing resources.
- D. It is used to manage the data throughput of AI applications by prioritizing network traffic.

Answer: A

NEW QUESTION 11

In an AI cluster, what is the purpose of job scheduling?

- A. To gather and analyze cluster data on a regular schedule.
- B. To monitor and troubleshoot cluster performance.
- C. To assign workloads to available compute resources.
- D. To install, update, and configure cluster software.

Answer: C

NEW QUESTION 16

When using an InfiniBand network for an AI infrastructure, which software component is necessary for the fabric to function?

- A. Verbs
- B. MPI
- C. OpenSM

Answer: C

NEW QUESTION 18

What is a significant benefit of using containers in an AI development environment?

- A. They increase the base accuracy of AI models by optimizing their algorithms.
- B. They ensure that AI applications run consistently across different computing environments.
- C. They can automatically generate AI datasets for machine learning model training.
- D. They directly increase the processing speed of GPUs used in AI computations.

Answer: B

NEW QUESTION 19

In a data center, what is the purpose and benefit of a DPU?

- A. A DPU is responsible for providing backup and disaster recovery solutions.
- B. A DPU is used for managing physical infrastructure, such as power and cooling.
- C. A DPU is responsible for managing network connections and security.
- D. A DPU is designed to offload, accelerate, and isolate infrastructure workloads.

Answer: D

NEW QUESTION 23

What factors have led to significant breakthroughs in Deep Learning?

- A. Advances in hardware, availability of fast internet connections, and improvements in training algorithms.
- B. Advances in sensors, availability of large datasets, and improvements to the ??Bag of Words?? algorithm.
- C. Advances in hardware, availability of large datasets, and improvements in training algorithms.
- D. Advances in smartphones, social media sites, and improvements in statistical techniques.

Answer: C

NEW QUESTION 28

How many Mellanox ConnectX-6 Single Port VPI cards are in a DGX A100 system?

- A. 8
- B. 16
- C. 4

Answer: A

NEW QUESTION 32

What is the importance of a job scheduler in an AI resource-constrained cluster?

- A. It allocates resources based on which job requests came first.
- B. It ensures that all jobs in the cluster are executed simultaneously.
- C. It increases the number of resources available in the cluster.
- D. It allocates resources efficiently and optimizes job execution.

Answer: D

NEW QUESTION 36

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