

NVIDIA

Exam Questions NCA-AIIO

NVIDIA-Certified Associate AI Infrastructure and Operations



NEW QUESTION 1

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

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

Answer: CD

NEW QUESTION 2

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 3

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 4

Which of the following statements correctly differentiates between AI, Machine Learning, and Deep Learning?

- A. Machine Learning is a subset of AI, and AI is a subset of Deep Learning.
- B. AI and Deep Learning are the same, while Machine Learning is a separate concept.
- C. AI is a subset of Machine Learning, and Machine Learning is a subset of Deep Learning.
- D. Deep Learning is a subset of Machine Learning, and Machine Learning is a subset of AI.

Answer: D

NEW QUESTION 5

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 6

Which NVIDIA software provides the capability to virtualize a GPU?

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

Answer: B

NEW QUESTION 7

When deploying high-density workloads in a data center, what are the three main resource constraints that need to be considered?

- A. Processing speed, storage capacity, and network connectivity.
- B. Power, cooling, and physical space.
- C. Bandwidth, security, and redundancy.

Answer: B

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. CUML
- C. CUGRAPH

Answer: A

NEW QUESTION 10

Which feature of RDMA reduces CPU utilization and lowers latency?

- A. Increased memory buffer size.
- B. Network adapters that include hardware offloading.
- C. NVIDIA Magnum I/O software.

Answer: B

NEW QUESTION 10

Which of the following statements is true about GPUs and CPUs?

- A. GPUs are optimized for parallel tasks, while CPUs are optimized for serial tasks.
- B. GPUs have very low bandwidth main memory while CPUs have very high bandwidth main memory.
- C. GPUs and CPUs have the same number of cores, but GPUs have higher clock speeds.
- D. GPUs and CPUs have identical architectures and can be used interchangeably.

Answer: A

NEW QUESTION 14

For which workloads is NVIDIA Merlin typically used?

- A. Recommender systems
- B. Natural language processing
- C. Data analytics

Answer: A

NEW QUESTION 17

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 18

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 23

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

- A. 1
- B. 2

Answer: C

NEW QUESTION 25

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 29

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 30

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 a key value of using NVIDIA NIMs?

- A. They provide fast and simple deployment of AI models.
- B. They have community support.
- C. They allow the deployment of NVIDIA SDKs.

Answer: A

NEW QUESTION 36

Which aspect of computing uses large amounts of data to train complex neural networks?

- A. Machine learning
- B. Deep learning
- C. Inferencing

Answer: B

NEW QUESTION 37

What is an advantage of InfiniBand over Ethernet?

- A. InfiniBand always provides higher bandwidth than Ethernet.
- B. InfiniBand supports RDMA while Ethernet does not.
- C. InfiniBand offers lower latency than Ethernet.

Answer: C

NEW QUESTION 40

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