

Exam Questions NCA-AIIO

NVIDIA-Certified Associate AI Infrastructure and Operations

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NEW QUESTION 1

Which of the following statements is true about Kubernetes orchestration?

- A. It is bare-metal based but it supports containers.
- B. It has advanced scheduling capabilities to assign jobs to available resources.
- C. It has no inferencing capabilities.
- D. It does load balancing to distribute traffic across containers.

Answer: BD

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

In training and inference architecture requirements, what is the main difference between training and inference?

- A. Training requires real-time processing, while inference requires large amounts of data.
- B. Training requires large amounts of data, while inference requires real-time processing.
- C. Training and inference both require large amounts of data.
- D. Training and inference both require real-time processing.

Answer: B

NEW QUESTION 4

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 5

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 6

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 7

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 8

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 9

Which two components are included in GPU Operator? (Choose two.)

- A. Drivers
- B. PyTorch
- C. DCGM
- D. TensorFlow

Answer: AC

NEW QUESTION 10

What is a common tool for container orchestration in AI clusters?

- A. Kubernetes
- B. MLOps
- C. Slurm
- D. Apptainer

Answer: A

NEW QUESTION 10

What is one key advantage that Cloud GPU Infrastructure has over On-Prem GPU infrastructure?

- A. Lower cost barrier to entry.
- B. Reduced cost of I/O traffic.
- C. Greater flexibility for hardware orchestration.

Answer: A

NEW QUESTION 12

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 15

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

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

Which are three key features of InfiniBand networking technology?

- A. High reliability, high latency, and CPU offloads.
- B. High latency, high reliability, and high bandwidth.
- C. GPU offloads, low latency, high reliability.
- D. Low latency, high bandwidth, and CPU offloads.

Answer: D

NEW QUESTION 24

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 27

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 28

Which NVIDIA tool aids data center monitoring and management?

- A. NVIDIA Mellanox Insight
- B. NVIDIA Clara
- C. NVIDIA TensorRT
- D. NVIDIA DCGM

Answer: D

NEW QUESTION 30

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

- A. 7
- B. 8
- C. 4

Answer: A

NEW QUESTION 32

What is the primary command for checking the GPU utilization on a single DGX H100 system?

- A. nvidia-smi
- B. ctop
- C. nvml

Answer: A

NEW QUESTION 35

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