

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

When training a neural network, what is the most common pattern of storage access?

- A. Random write
- B. Sequential read
- C. Sequential write

Answer: B

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

An IT professional is considering whether to implement an on-prem or cloud infrastructure. Which of the following is a key advantage of on-prem infrastructure?

- A. Lower upfront costs and capital expenditure.
- B. Scalability and flexibility.
- C. Ensure data security and sovereignty.
- D. Easy remote management.

Answer: C

NEW QUESTION 6

What NVIDIA tool should a data center administrator use to monitor NVIDIA GPUs?

- A. NVIDIA System Monitor
- B. NetQ
- C. DCGM

Answer: C

NEW QUESTION 7

Which solution should be recommended to support real-time collaboration and rendering among a team?

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

Answer: C

NEW QUESTION 8

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 9

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

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

Answer: AC

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

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

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

Answer: A

NEW QUESTION 14

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 15

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 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 21

How many distinct network fabrics are in an AI cluster?

- A. 3
- B. 2
- C. 4
- D. 5

Answer: A

NEW QUESTION 22

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 27

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

- A. 1
- B. 2

Answer: C

NEW QUESTION 32

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 37

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 40

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 42

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

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

Answer: A

NEW QUESTION 43

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 46

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 47

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