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## NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>

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## **NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q56-Q61):**

### **NEW QUESTION # 56**

The foundation of the NVIDIA software stack is the DGX OS. Which of the following Linux distributions is DGX OS built upon?

- **A. Ubuntu**
- B. CentOS
- C. Red Hat

**Answer: A**

Explanation:

DGX OS, the operating system powering NVIDIA DGX systems, is built on Ubuntu Linux, specifically the Long-Term Support (LTS) version. It integrates Ubuntu's robust base with NVIDIA-specific enhancements, including GPU drivers, tools, and optimizations tailored for AI and high-performance computing workloads. Neither Red Hat nor CentOS serves as the foundation for DGX OS, making Ubuntu the correct choice.

### **NEW QUESTION # 57**

Why is explainability critical in safety-critical AI systems?

- A. It reduces model size
- B. It guarantees perfect accuracy
- C. It improves training speed
- **D. It supports trust, accountability, and risk control**

**Answer: D**

Explanation:

Explainability enables human oversight, regulatory compliance, and safer decision-making.

### **NEW QUESTION # 58**

Your company is implementing a hybrid cloud AI infrastructure that needs to support both on-premises and cloud-based AI workloads. The infrastructure must enable seamless integration, scalability, and efficient resource management across different environments. Which NVIDIA solution should be considered to best support this hybrid infrastructure?

- **A. NVIDIA Fleet Command**
- B. NVIDIA MIG (Multi-Instance GPU)
- C. NVIDIA Triton Inference Server
- D. NVIDIA Clara Deploy SDK

**Answer: A**

Explanation:

NVIDIA Fleet Command is the best solution for supporting a hybrid cloud AI infrastructure with seamless integration, scalability, and efficient resource management. Fleet Command is a cloud-based platform for managing and orchestrating NVIDIA GPU workloads across on-premises and cloud environments. It provides centralized control, deployment, and monitoring, ensuring consistency and scalability for AI tasks, as detailed in NVIDIA's "Fleet Command Documentation." MIG (A) optimizes single-GPU partitioning, not hybrid management. Triton (B) handles inference deployment, not full infrastructure orchestration. Clara Deploy SDK (C) is healthcare-specific. Fleet Command is NVIDIA's hybrid AI management solution.

### **NEW QUESTION # 59**

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

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

**Answer: B**

Explanation:

Kubernetes is the industry-standard tool for container orchestration in AI clusters, automating deployment, scaling, and management of containerized workloads. Slurm manages job scheduling, Apptainer (formerly Singularity) runs containers, and MLOps is a practice, not a tool, making Kubernetes the clear leader in this domain.

### NEW QUESTION # 60

You have developed two different machine learning models to predict house prices based on various features like location, size, and number of bedrooms. Model A uses a linear regression approach, while Model B uses a random forest algorithm. You need to compare the performance of these models to determine which one is better for deployment. Which two statistical performance metrics would be most appropriate to compare the accuracy and reliability of these models? (Select two)

- **A. R-squared (Coefficient of Determination)**
- B. F1 Score
- C. Cross-Entropy Loss
- D. Learning Rate
- **E. Mean Absolute Error (MAE)**

**Answer: A,E**

Explanation:

For regression tasks like predicting house prices (a continuous variable), the appropriate metrics focus on accuracy and reliability of numerical predictions:

\* Mean Absolute Error (MAE)(C) measures the average absolute difference between predicted and actual values, providing a straightforward indicator of prediction accuracy. It's intuitive and effective for comparing regression models.

\* R-squared (Coefficient of Determination)(E) indicates how well the model explains the variance in the target variable (house prices). A higher R-squared (closer to 1) suggests better fit and reliability, making it ideal for comparing Model A (linear regression) and Model B (random forest).

\* F1 Score(A) is used for classification tasks, not regression, as it balances precision and recall.

\* Learning Rate(B) is a hyperparameter for training, not a performance metric.

\* Cross-Entropy Loss(D) is typically used for classification, not regression tasks like this.

MAE (C) and R-squared (E) are standard metrics in NVIDIA RAPIDS cuML and other ML frameworks for regression evaluation.

### NEW QUESTION # 61

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