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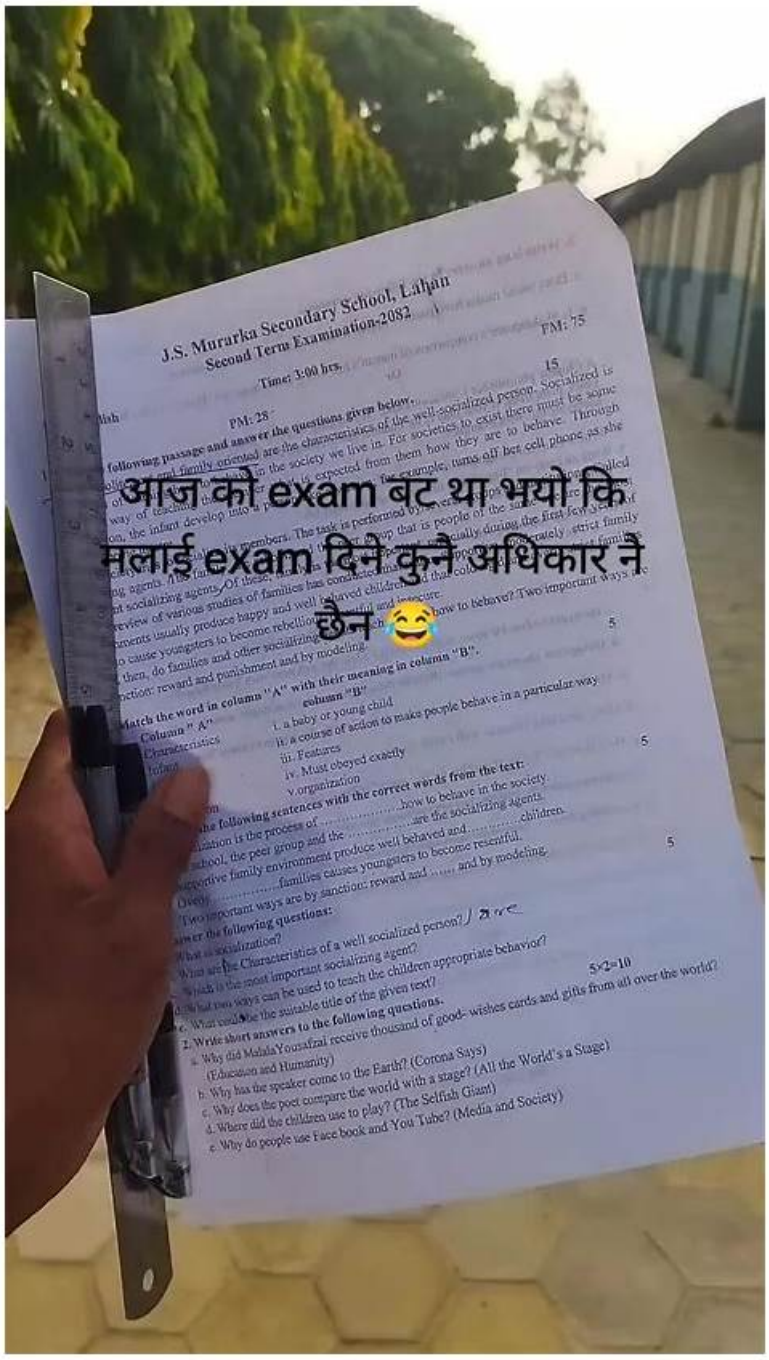

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NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details

Topic 1	• 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.
Topic 2	• 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.
Topic 3	• 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.

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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q51-Q56):

NEW QUESTION # 51
A financial institution is implementing a real-time fraud detection system using deep learning models. The system needs to process large volumes of transactions with very low latency to identify fraudulent activities immediately. During testing, the team observes that the system occasionally misses fraudulent transactions under heavy load, and latency spikes occur. Which strategy would best improve the system's performance and reliability?

- A. Deploy the model on a CPU cluster instead of GPUs to handle the processing.
- B. Implement model parallelism to split the model across multiple GPUs.
- C. Increase the dataset size by including more historical transaction data.
- D. Reduce the complexity of the model to decrease the inference time.

Answer: B

Explanation:
Implementing model parallelism to split the deep learning model across multiple NVIDIA GPUs is the best strategy to improve performance and reliability for a real-time fraud detection system under heavy load.
Model parallelism divides the computational workload of a large model across GPUs, reducing latency and increasing throughput by leveraging parallel processing capabilities, a strength of NVIDIA's architecture (e.
g., TensorRT, NCCL). This addresses latency spikes and missed detections by ensuring the system scales with demand. Option A (CPU cluster) sacrifices GPU acceleration, increasing latency. Option B (reducing complexity) may lower accuracy, undermining fraud detection. Option C (larger dataset) improves training but not inference performance. NVIDIA's fraud detection use cases highlight model parallelism as a key optimization technique.

NEW QUESTION # 52
An AI research team is working on a large-scale natural language processing (NLP) model that requires both data preprocessing and training across multiple GPUs. They need to ensure that the GPUs are used efficiently to minimize training time. Which combination of NVIDIA technologies should they use?

- A. NVIDIA cuDNN and NVIDIA NGC Catalog
- B. NVIDIA DALI (Data Loading Library) and NVIDIA NCCL
- C. NVIDIA TensorRT and NVIDIA DGX OS
- D. NVIDIA DeepStream SDK and NVIDIA CUDA Toolkit

Answer: B

Explanation:
NVIDIA DALI (Data Loading Library) and NVIDIA NCCL (Collective Communications Library) are the best combination for efficient GPU use in NLP model training. DALI accelerates data preprocessing (e.g., tokenization) on GPUs, reducing CPU bottlenecks, while NCCL optimizes inter-GPU communication for distributed training, minimizing latency and maximizing utilization. Option A (TensorRT) focuses on inference, not training. Option B (DeepStream) targets video analytics. Option D (cuDNN, NGC) supports neural ops and model access but lacks preprocessing/communication focus. NVIDIA's NLP workflows recommend DALI and NCCL for efficiency.

NEW QUESTION # 53
Your AI cluster is managed using Kubernetes with NVIDIA GPUs. Due to a sudden influx of jobs, your cluster experiences resource overcommitment, where more jobs are scheduled than the available GPU resources can handle. Which strategy would most effectively manage this situation to maintain cluster stability?

- A. Use Kubernetes Horizontal Pod Autoscaler Based on Memory Usage
- B. Schedule Jobs in a Round-Robin Fashion Across Nodes
- C. Implement Resource Quotas and LimitRanges in Kubernetes
- D. Increase the Maximum Number of Pods per Node

Answer: C

Explanation:
Implementing Resource Quotas and LimitRanges in Kubernetes is the most effective strategy to manage resource overcommitment and maintain cluster stability in an NVIDIA GPU cluster. Resource Quotas restrict the total amount of resources (e.g., GPU, CPU, memory) that can beconsumed by namespaces, preventing over-scheduling across the cluster. LimitRanges enforce minimum and maximum resource usage per pod, ensuring that individual jobs do not exceed available GPU resources. This approach provides fine-grained control and prevents instability caused by resource exhaustion.
Increasing the maximum number of pods per node (A) could worsen overcommitment by allowing more jobs to schedule without resource checks. Round-robin scheduling (B) lacks resource awareness and may lead to uneven GPU utilization. Using Horizontal Pod Autoscaler based on memory usage (C) focuses on scaling pods, not managing GPU-specific overcommitment. NVIDIA's "DeepOps" and "AI Infrastructure and Operations Fundamentals" documentation recommend Resource Quotas and LimitRanges for stable GPU cluster management in Kubernetes.

NEW QUESTION # 54
In a data center designed for AI workloads, what is a key difference in how GPUs and DPUs complement CPU functionality?

- A. GPUs enhance floating-point computation, while DPUs enhance integer computation, both directly supporting CPU tasks.
- B. GPUs and DPUs are used interchangeably, depending on the specific AI workload, without any significant difference in function.
- C. GPUs focus on memory management, whereas DPUs focus on accelerating storage throughput for CPUs.
- D. GPUs are designed for parallel processing of AI models, while DPUs manage data center networking and security tasks to offload CPUs.

Answer: D

Explanation:

GPUs are designed for parallel processing of AI models (e.g., training/inference via CUDA), while DPUs (e.
g., NVIDIA BlueField) manage data center networking and security tasks (e.g., RDMA, encryption), offloading CPUs. This complementary role enhances overall efficiency. Option A is incorrect; GPUs and DPUs have distinct purposes. Option B misattributes memory management to GPUs. Option C mischaracterizes DPUs' role. NVIDIA's DPU and GPU documentation confirms Option D.

NEW QUESTION # 55
In an AI cluster, what is the purpose of job scheduling?

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

Answer: C

Explanation:
Job scheduling in an AI cluster assigns workloads (e.g., training, inference) to available compute resources (GPUs, CPUs), optimizing resource utilization and ensuring efficient execution. It's distinct from data analysis, monitoring, or software management, focusing solely on workload distribution.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Job Scheduling)

NEW QUESTION # 56
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