NCP-AIO Valid Mock Test & NCP-AIO Valid Exam Topics

YEAR 10 SCIENCE ASSESSMENT TASK The Complex Human - Sample Test Time allowed: 5 minutes reading time + 50 minutes working time Total marks: 50 marks Instructions Read each question carefully Answer all questions in the Answer all questions in the spaces provided Write using blue or black pen You may bring your depth study workbook into the examination Question 1 (5 marks) Explain the process of inheritance and how DNA and genes are involved in the transmission of heritable characteristics from one generation to the next. In your answer, include two examples of inherited human traits and explain why environmental characteristics cannot be inherited. Question 2 (7 marks) Gregor Mendel is considered the "Father of Genetics" due to his experiments with pea plants. a) Describe Mendel's key contributions to the field of genetics. (3 marks) b) Define the following terms and explain their significance in inheritance: (4 marks) Homozygous and heterozygous Dominant and recessive alleles Question 3 (8 marks) The following Punnett square shows a cross between two individuals heterozygous for earlobe attachment, where free earlobes (E) are dominant to attached earlobes (e). E .

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	 Administration: This section of the exam measures the skills of system administrators and covers essential tasks in managing AI workloads within data centers. Candidates are expected to understand fleet command, Slurm cluster management, and overall data center architecture specific to AI environments. It also includes knowledge of Base Command Manager (BCM), cluster provisioning, Run.ai administration, and configuration of Multi-Instance GPU (MIG) for both AI and high-performance computing applications.

Topic 2	Workload Management: This section of the exam measures the skills of AI infrastructure engineers and focuses on managing workloads effectively in AI environments. It evaluates the ability to administer Kubernetes clusters, maintain workload efficiency, and apply system management tools to troubleshoot operational issues. Emphasis is placed on ensuring that workloads run smoothly across different environments in alignment with NVIDIA technologies.
Topic 3	Installation and Deployment: This section of the exam measures the skills of system administrators and addresses core practices for installing and deploying infrastructure. Candidates are tested on installing and configuring Base Command Manager, initializing Kubernetes on NVIDIA hosts, and deploying containers from NVIDIA NGC as well as cloud VMI containers. The section also covers understanding storage requirements in AI data centers and deploying DOCA services on DPU Arm processors, ensuring robust setup of AI-driven environments.
Topic 4	 Troubleshooting and Optimization: NVIThis section of the exam measures the skills of AI infrastructure engineers and focuses on diagnosing and resolving technical issues that arise in advanced AI systems. Topics include troubleshooting Docker, the Fabric Manager service for NVIDIA NVInik and NVSwitch systems, Base Command Manager, and Magnum IO components. Candidates must also demonstrate the ability to identify and solve storage performance issues, ensuring optimized performance across AI workloads.

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NVIDIA AI Operations Sample Questions (Q48-Q53):

NEW QUESTION #48

Describe a scenario where using MIG (Multi-Instance GPU) on an NVIDIAAI 00 GPU within a Kubernetes cluster would be most beneficial. Explain why MIG is advantageous in that specific use case.

- A. Running a single, large deep learning training job that requires the full resources of the A100 GPU.
- B. Distributing a single large training job across multiple GPUs on different nodes.
- C. Running a virtual desktop infrastructure (VDI) environment where each user requires dedicated GPU resources.
- D. Hosting a large number of small, independent AI inference services, each with modest GPU requirements.
- E. Executing a computationally intensive scientific simulation that benefits from high GPU memory bandwidth.

Answer: C,D

Explanation:

The correct answers are B and D. MIG is most advantageous when you have many smaller workloads that can each benefit from a dedicated, isolated GPU instance. For inference services (B), MIG allows you to efficiently pack multiple services onto a single A100. And also for VDI use-case (D) where each user expects to have assigned dedicated GPU resources for graphics rendering, video encoding, or other GPU accelerated operations for their VM. For option A, a single large training job needs the entire GPU's resources and wouldn't benefit from partitioning. Options C and E are more about compute power/scale than isolation and efficient resource sharing.

NEW QUESTION #49

Your organization is running multiple AI models on a single A100 GPU using MIG in a multi-tenant environment. One of the tenants reports a performance issue, but you notice that other tenants are unaffected.

What feature of MIG ensures that one tenant's workload does not impact others?

- A. Automatic scaling of instances based on workload size.
- B. Shared memory access across all instances.
- C. Hardware-level isolation of memory, cache, and compute resources for each instance.
- D. Dynamic resource allocation based on workload demand.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NVIDIA's Multi-Instance GPU (MIG) technology provideshardware-level isolation of critical GPU resources such as memory, cache, and compute units for each GPU instance. This ensures that workloads running in one instance are fully isolated and cannot interfere with the performance of workloads in other instances, supporting multi-tenancy without contention.

NEW QUESTION #50

You are tasked with configuring MIG in a Kubernetes cluster to support multiple AI workloads with varying GPU resource demands. You want to define a Kubernetes resource quota that limits the total amount of GPU memory available to a specific namespace. How can you achieve this using NVIDIA's Kubernetes integration?

- A. Set limits on CPU usage, this implicitly limits GPU memory usage.
- B. It is not possible to limit GPU memory usage in Kubernetes using resource quotas.
- C. Use network policies to restrict access to GPU resources based on namespace.
- D. Define a resource quota that limits the number of pods that can request GPUs in the namespace.
- E. Define a resource quota that specifies the total amount of GPU memory that can be requested by all pods in the namespace, using the "nvidia.com/gpu.memory' resource type.

Answer: E

Explanation:

With the NVIDIA GPU Operator, Kubernetes exposes MIG resources as custom resources, including 'nvidia.com/gpu.memory'. You can define resource quotas that limit the total amount of GPU memory requested by pods in a namespace using this resource type. Other options are inaccurate or do not directly address the requirement.

NEW QUESTION #51

You want to configure a Slurm cluster with heterogeneous nodes, some equipped with high-performance GPUs and others with only CPUs. Which Slurm configuration parameter allows you to define and utilize these different node types effectively?

- A. QOS=gpu
- B. TRES= gpu:2
- C. PartitionName=gpu PartitionName=cpu
- D. NodeName=node[1-10] Gres=gpu:2 NodeName=node[11-20]
- E. Feature=gpu Feature=cpu

Answer: D

Explanation:

Using NodeName and Gres (Generic Resources), you can specify the resources available on each node. In this example, nodes 1-10 are configured with 2 GPUs each, while nodes 11-20 are assumed to have only CPUs (no Gres specified).

NEW QUESTION #52

You have deployed the NVIDIA Device Plugin for Kubernetes on your BCM-managed cluster. After a kernel update on one of the worker nodes, the device plugin fails to discover the GPUs. The error messages indicate a mismatch between the driver version expected by the device plugin and the actual driver version installed on the node. What is the MOST reliable way to resolve this issue without disrupting other workloads?

- A. Uninstall and reinstall the NVIDIA Container Toolkit on the affected worker node to automatically update the driver version.
- B. Update the NVIDIA Device Plugin deployment manifest to specify the driver version installed on the node.
- C. Manually downgrade the NVIDIA driver on the affected worker node to match the version expected by the device plugin.

- D. Use a DaemonSet to manage the NVIDIA driver installation on all worker nodes, ensuring a consistent driver version across the cluster and compatibility with the device plugin.
- E. Remove the NVIDIA Device Plugin and replace it with the 'nvidia-driver-installer' helm chart

Answer: D

Explanation:

Using a DaemonSet to manage the NVIDIA driver installation is the MOST reliable and scalable solution. It ensures that all worker nodes have the correct driver version and simplifies driver updates. Manually downgrading or updating individual nodes (A, B) is not sustainable. Reinstalling the toolkit (D) might not update the driver. Simply removing and replacing the plugin (E) doesn't address driver mismatch and would likely use a similar deployment method that would lead to the same error.

NEW QUESTION #53

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