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## NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>AI Network Architecture: This section of the exam measures the skills of AI Infrastructure Architects and covers the ability to distinguish between AI factory and AI data center architectures. It includes understanding how Ethernet and InfiniBand differ in performance and application, and identifying the right storage options based on speed, scalability, and cost to fit AI networking needs.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Spectrum-X Configuration, Optimization, Security, and Troubleshooting:</b> This section of the exam measures the skills of Network Performance Engineers and covers configuring, managing, and securing NVIDIA Spectrum-X switches. It includes setting performance baselines, resolving performance issues, and using diagnostic tools such as CloudAI benchmark, NCCL, and NetQ. It also emphasizes leveraging DPUs for network acceleration and using monitoring tools like Grafana and SNMP for telemetry analysis.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>InfiniBand Configuration, Optimization, Security, and Troubleshooting:</b> This section of the exam measures the skills of Data Center Network Administrators and covers the configuration and operational maintenance of NVIDIA InfiniBand switches. It includes setting up InfiniBand fabrics for multi-tenant environments, managing subnet configurations, testing connectivity, and using UFM to troubleshoot and analyze issues. It also focuses on validating rail-optimized topologies for optimal network performance.</li> </ul>

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### NVIDIA-Certified Professional AI Networking Sample Questions (Q73-Q78):

#### NEW QUESTION # 73

Which of the following options correctly describes the difference between UFM Telemetry, UFM Enterprise, and UFM Cyber AI?

- **A. UFM Telemetry provides real-time monitoring and analysis of network performance, UFM Enterprise focuses on network management and optimization, and UFM Cyber AI detects and mitigates network security threats.**
- B. UFM Telemetry detects and mitigates network security threats. UFM Enterprise provides real-time monitoring and analysis of network performance, and UFM Cyber AI focuses on network management and optimization.
- C. UFM Telemetry focuses on network management and optimization, UFM Enterprise detects and mitigates network security threats, and UFM Cyber AI provides real-time monitoring and analysis of network performance.
- D. UFM Telemetry provides real-time monitoring and analysis of network performance. UFM Enterprise detects and mitigates network security threats, and UFM Cyber AI focuses on network management and optimization.

**Answer: A**

Explanation:

\* UFM Telemetry: Provides real-time monitoring and analysis of network performance, collecting data such as port counters and cable information to assess the health and efficiency of the network.

\* UFM Enterprise: Focuses on comprehensive network management and optimization, enabling administrators to monitor, operate, and optimize InfiniBand scale-out computing environments effectively.

\* UFM Cyber AI: Detects and mitigates network security threats by analyzing telemetry data to identify anomalies and potential security issues within the network infrastructure.

Reference Extracts from NVIDIA Documentation:

\* "UFM Telemetry provides real-time monitoring and analysis of network performance."

\* "UFM Enterprise is a powerful platform for managing InfiniBand scale-out computing environments."

\* "UFM Cyber-AI enhances the benefits of UFM Telemetry and UFM Enterprise services by detecting and mitigating network security threats."

#### NEW QUESTION # 74

Which component of the Spectrum-X platform is responsible for reordering out-of-order packets?

- A. DOCA software
- B. Spectrum-4 switch
- **C. SuperNIC**

- D. NetQ

**Answer: C**

Explanation:

Within the Spectrum-X platform, the NVIDIA BlueField-3 SuperNIC is responsible for reordering out-of-order packets. When RoCE adaptive routing is employed, packets may arrive at their destination out of order due to dynamic path selection. The BlueField-3 SuperNIC handles this by reassembling the packets in the correct order at the transport layer, ensuring that the application receives data seamlessly.

#### **NEW QUESTION # 75**

What does NetQ leverage (in addition to NVIDIA "What Just Happened" switch telemetry data and NVIDIA DOCA telemetry) to help network operators proactively identify server and application root cause issues?

- A. Application telemetry
- B. Flow telemetry
- C. Packet capture telemetry
- **D. Behavioral telemetry**

**Answer: D**

Explanation:

NetQ integrates multiple telemetry sources, including WJH, DOCA, and notably, Behavioral Telemetry.

#### **NEW QUESTION # 76**

A leading AI research center is upgrading its infrastructure to support large language model projects. The team is debating whether to implement a dedicated storage fabric for their AI workloads. Which of the following best explains why a dedicated storage fabric is crucial for this AI network architecture? Pick the 2 correct responses below

- **A. To enable parallel data access and improve storage performance for distributed AI workloads.**
- **B. To provide high-bandwidth, low-latency data access that prevents I/O bottlenecks during AI model training.**
- C. To reduce the overall cost of the storage infrastructure.
- D. To ensure data security and isolation from other network traffic.

**Answer: A,B**

Explanation:

Modern AI training (especially with LLMs) requires extremely high-speed, parallel access to large datasets. A dedicated storage fabric separates data I/O traffic from the training compute path and avoids contention.

#### **NEW QUESTION # 77**

What is the main purpose of NVIDIA's AI-powered traffic routing?

- A. To distribute power efficiently
- B. To ensure secure data transmission
- **C. To optimize the flow of data across networks for AI applications**
- D. To manage the cloud infrastructure

**Answer: C**

Explanation:

AI-powered traffic routing dynamically adjusts the flow of data across the network, optimizing it for AI/ML tasks that need large bandwidth and low latency.

#### **NEW QUESTION # 78**

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