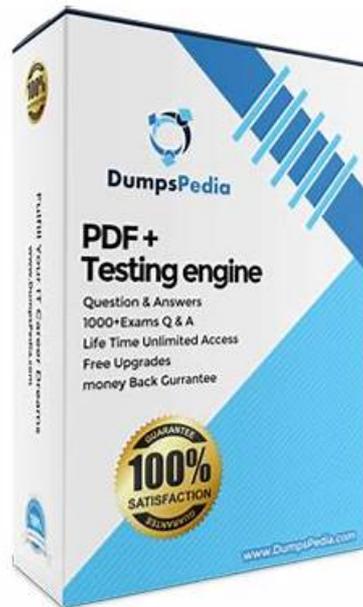


# Free PDF Quiz 2026 High Hit-Rate NVIDIA NCP-AIN Valid Test Answers



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## NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details

Topic 1	<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>
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>AI Network Architecture:</b> 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>

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## Accurate NCP-AIN Study Material, Reliable NCP-AIN Dumps Sheet

When preparing to take the NVIDIA-Certified Professional AI Networking (NCP-AIN) exam dumps, knowing where to start can be a little frustrating, but with ExamcollectionPass NVIDIA NCP-AIN practice questions, you will feel fully prepared. Using our NVIDIA NCP-AIN practice test software, you can prepare for the increased difficulty on NVIDIA NCP-AIN Exam day. Plus, we have various question types and difficulty levels so that you can tailor your NVIDIA-Certified Professional AI Networking (NCP-AIN) exam dumps preparation to your requirements.

### NVIDIA-Certified Professional AI Networking Sample Questions (Q43-Q48):

#### NEW QUESTION # 43

You're designing a multi-GPU system for AI training using NVIDIA GPUs with NVLink connections.

You need to maximize inter-GPU communication bandwidth. Which feature included in NCCL allows for improved communication between GPUs and NICs?

- A. SHARP v2
- B. Adaptive Routing
- C. Graph Search Optimization
- **D. PXN**

**Answer: D**

Explanation:

The correct answer is PXN (Peer eXchange Network).

From the NVIDIA NCCL Documentation:

"PXN enables communication between GPUs connected via NVLink and NICs by treating the GPUs as a distributed switch. This architecture improves bandwidth utilization by enabling any GPU to communicate with the NIC via the shortest path available, even if it's not directly connected to the NIC." This enhances GPU-to-NIC and NIC-to-GPU transfers, leveraging the NVLink topology. It significantly boosts performance in multi-GPU setups where not every GPU is directly connected to the NIC.

Other options:

- \* Adaptive Routing is a fabric-level feature for dynamic path rerouting.
- \* Graph Search Optimization is used internally for topology modeling in NCCL.
- \* SHARP v2 is a switch-based collective acceleration method, unrelated to PXN.

Reference: NVIDIA NCCL User Guide - PXN Feature Section

#### NEW QUESTION # 44

A user has requested confirmation that the InfiniBand network is performing optimally and is not limiting the speed of a training run.

To verify this, you would like to measure the RDMA throughput rate between two endpoints. Which tool should be used?

- A. ping
- B. iperf
- C. **ib\_write\_bw**
- D. ibdiagnet

**Answer: C**

Explanation:

The `ib_write_bw` tool is part of the Perfest package and is specifically designed to measure the bandwidth of RDMA write operations between two InfiniBand endpoints. It provides accurate assessments of RDMA throughput, which is crucial for verifying the performance of InfiniBand networks in high-performance computing and AI training environments.

Reference: `ib_write_bw` - NVIDIA Enterprise Support Portal

#### NEW QUESTION # 45

You're troubleshooting a Spectrum-X network and notice that the System Status LED on a switch is blinking for more than 5 minutes. What is the most likely cause of this issue?

- A. **The Onyx software did not boot properly**
- B. The switch is overheating
- C. The power supply unit is failing

**Answer: A**

Explanation:

According to the NVIDIA Spectrum-X Switch Operating System (SX\_OS) Troubleshooting Guide, the System Status LED behavior is a critical indicator of the switch's internal operational state.

From the document:

"The System Status LED will blink green during system initialization. If the LED continues blinking for more than 5 minutes, it indicates that the Onyx OS has failed to load properly. The system may be stuck in the boot process, or the file system may be corrupted." This blinking LED beyond normal initialization time indicates that the system has either encountered a failure during software boot or is unable to transition from bootloader to the OS runtime environment (i.e., Onyx).

Key causes include:

- \* Corrupted or missing system files.
- \* Failed firmware or OS upgrade attempts.
- \* Boot device (e.g., eMMC or SSD) issues or corrupted partitions.

Technically, during power-on:

- \* The switch performs POST (Power-On Self Test).
- \* Then the Onyx OS attempts to load from the boot partition.
- \* If the Onyx OS kernel or root filesystem is invalid, the system halts boot, and the LED remains in a blinking state, as no successful OS load confirmation is triggered.

Remediation Steps (as per NVIDIA guide):

- \* Access the switch through console and monitor boot logs.
- \* Use ONIE recovery or re-flash a stable Onyx OS version.
- \* Check system storage integrity using built-in diagnostics.

Exact Extract Reference:

Source: NVIDIA SX\_OS 3.9.3000 Documentation

Topic: Troubleshooting System Status LED

Extract: "If the LED blinks for more than 5 minutes and the switch is not accessible via CLI, the Onyx software failed to load properly and recovery procedures must be initiated."

#### NEW QUESTION # 46

You are setting up PKey memberships for different tenants in an InfiniBand network. You want to ensure that some tenants have limited communication capabilities. Which PKey membership type allows members to communicate with full members but not with other members of the same type?

- A. Full membership

- B. Restricted membership
- C. Isolated membership
- **D. Limited/partial membership**

**Answer: D**

Explanation:

In InfiniBand networks, P\_Keys (Partition Keys) control communication boundaries. Each port can belong to one or more partitions with either full or limited membership.

From NVIDIA InfiniBand Documentation (Partitioning and P\_Keys):

"A limited (or partial) membership permits a port to communicate only with other ports in the same partition that have full membership. It cannot communicate with other limited members, even if they are in the same P\_Key partition." This makes limited/partial membership ideal for multi-tenant security, where tenant ports can reach infrastructure ports (full members) but not other tenant ports (limited members).

Incorrect Options:

\* A & Bare not valid InfiniBand P\_Key types.

\* C (Full membership) allows unrestricted communication within the same partition.

Reference: NVIDIA InfiniBand Guide - PKey Partitioning and Membership Types

### NEW QUESTION # 47

You are planning to deploy a large-scale Spectrum-X network for AI workloads. Before physical implementation, you want to validate the network design and configuration using a digital twin approach.

Which NVIDIA tool would be most appropriate for creating and simulating a digital twin of your Spectrum-X network?

- A. NVIDIA Omniverse
- **B. NVIDIA Air**
- C. NVIDIA Base Command Manager
- D. NVIDIA NetQ

**Answer: B**

Explanation:

NVIDIA Air is a cloud-based network simulation tool designed to create digital twins of data center infrastructure, including Spectrum-X networks. It allows users to model switches, SuperNICs, and storage components, enabling the simulation, validation, and automation of network configurations before physical deployment. This facilitates Day 0, 1, and 2 operations, ensuring that network designs are tested and optimized for AI workloads.

Reference Extracts from NVIDIA Documentation:

\* "NVIDIA Air enables cloud-scale efficiency by creating identical replicas of real-world data center infrastructure deployments."

\* "NVIDIA Air allows users to model data center deployments with full software functionality, creating a digital twin. Transform and accelerate time to AI by simulating, validating, and automating changes and updates."

\* "NVIDIA Air supports simulation of NVIDIA Spectrum Ethernet (Cumulus Linux and SONiC) switches and NVIDIA BlueField DPUs and SuperNICs as well as the NetQ network operations toolset."

### NEW QUESTION # 48

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