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1. Which of the following is incorrect regarding the first law of thermodynamics?
a) It introduces the concept of the internal energy b) **It introduces the concept of entropy**
c) It is applicable to any cyclic process d) It is a restatement of the principle of conservation of energy

Solution :-

Statement (b) is incorrect. Concept of entropy is associated with second law of thermodynamics.

2. Light of frequency 1.5 times the threshold frequency is incident on a photo sensitive material. What will be the photoelectric current if the frequency is halved?
a) 0 b) doubled c) four times d) one fourth

Solution :-

$$K_1 = 1.5h\nu_0 - \phi_0 = 0.5h\nu_0$$

$$K_2 = \frac{1.5}{2}h\nu_0 - h\nu_0 = -0.25h\nu_0$$

Kinetic energy can never be negative.

So, no emission and I=0

Or

In second case the incident frequency is halved

$$\text{Incident frequency} = \frac{1.5}{2}h\nu_0 = 0.75h\nu_0$$

Now the incident frequency is less than threshold frequency so no emission of electron take place therefore no current. (I=0)

3. Two harmonic waves having same ω and k are travelling on a stretched string in the positive direction of X-axis. The waves have same amplitude but differ in their initial phase. The net displacement of the wave is given by:
a) $y(x, t) = 2a \sin(kx - \omega t + \frac{\phi}{2})$ b) $y(x, t) = 2a \cos \frac{\phi}{2} \sin(kx - \omega t + \frac{\phi}{2})$
c) $y(x, t) = a \sin(kx - \omega t + \frac{\phi}{2})$ d) $y(x, t) = 2a \sin \frac{\phi}{2} \sin(kx - \omega t + \frac{\phi}{2})$

Solution :-

According to the standard equation for representation of waves, the two waves can be represented as:

$$y_1(x, t) = a \sin(kx - \omega t) \quad \dots (i)$$

$$y_2(x, t) = a \sin(kx - \omega t + \phi) \quad \dots (ii)$$

From the principle of superposition of waves, the net displacement,

$$y(x, t) = y_1(x, t) + y_2(x, t)$$

$$= a \sin(kx - \omega t) + a \sin(kx - \omega t + \phi)$$

$$\text{or } y(x, t) = a \left[2 \sin \left\{ \frac{(kx - \omega t) + (kx - \omega t + \phi)}{2} \right\} \cos \frac{\phi}{2} \right]$$

$$\left[\cdot \sin C + \sin D = 2 \sin \left(\frac{C+D}{2} \right) \cos \left(\frac{C-D}{2} \right) \right]$$

$$\text{or } y(x, t) = 2a \cos \frac{\phi}{2} \sin(kx - \omega t + \frac{\phi}{2}) \quad \dots (iii)$$

Equation (iii) is the resultant wave motion which is also a harmonic wave traveling in the positive direction of x-axis with

the same frequency and wavelength as the individual waves. The initial phase angle is $\frac{\phi}{2}$.

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> InfiniBand Configuration, Optimization, Security, and Troubleshooting: 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.

Topic 2	<ul style="list-style-type: none"> 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.
Topic 3	<ul style="list-style-type: none"> Spectrum-X Configuration, Optimization, Security, and Troubleshooting: 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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q67-Q72):

NEW QUESTION # 67

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. `ibdiagnet`
- B. `iperf`
- **C. `ib_write_bw`**
- D. `ping`

Answer: C

Explanation:

The `ib_write_bw` tool is part of the Perftest 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 # 68

A major cloud provider is designing a new data center to support large-scale AI workloads, particularly for training large language models. They want to optimize their network architecture for maximum performance and efficiency.

Why is a rail-optimized topology considered a best practice for AI network architecture in this scenario?

- A. It simplifies network management by using a single large switch for all connections.
- B. It prioritizes north-south traffic over east-west traffic for better internet connectivity.
- **C. It provides optimal GPU-to-GPU communication and reduces network interference between flows.**
- D. It maximizes the number of network hops to increase data redundancy.

Answer: C

Explanation:

A rail-optimized topology is designed to enhance GPU-to-GPU communication by connecting each GPU's Network Interface Card (NIC) to a dedicated rail switch. This configuration ensures predictable traffic patterns and minimizes network interference between data flows, which is crucial for the performance of large-scale AI workloads, such as training large language models. By reducing contention and latency, this topology supports efficient and scalable AI training environments.

Reference Extracts from NVIDIA Documentation:

- * "Rail-optimized network topology helps maximize all-reduce performance while minimizing network interference between flows."
- * "A Rail Optimized Stripe Architecture provides efficient data transfer between GPUs, especially during computationally intensive tasks such as AI Large Language Models (LLM) training workloads, where seamless data transfer is necessary to complete the tasks within a reasonable timeframe."

NEW QUESTION # 69

A cloud service provider is deploying the NVIDIA Spectrum-X Ethernet platform in a multi-tenant environment. To ensure the security and isolation of each tenant's AI workload, the provider wants to implement a feature that prevents unauthorized access to the network.

Which of the following features of the Spectrum-X platform should the provider implement?

- A. Adaptive Routing
- B. **Traffic Isolation**
- C. Streaming Telemetry
- D. Congestion Control

Answer: B

Explanation:

In multi-tenant AI cloud environments, ensuring that each tenant's workloads are isolated and secure is paramount. The NVIDIA Spectrum-X platform addresses this need through its Traffic Isolation capabilities.

This feature ensures that network resources are partitioned effectively, preventing unauthorized access and interference between tenants. By implementing Traffic Isolation, the provider can maintain strict boundaries between different tenant environments, ensuring both security and performance consistency.

Reference Extracts from NVIDIA Documentation:

- * "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."
- * "Spectrum-X utilizes the programmable congestion control function on the BlueField-3 hardware platform to accurately assess the congestion condition of the traffic path by using in-band telemetry information... to achieve the goal of performance isolation to ensure that each tenant gets the best expected performance in the cloud and is not negatively affected by congestion of other tenants."

NEW QUESTION # 70

Which of the following tools in Cumulus Linux is specifically useful for detecting and differentiating microbursts from regular network congestion?

Pick the 2 correct responses below

- A. **ASIC monitoring with millisecond-level granularity**
- B. **What Just Happened (WJH) feature for packet drop analysis**
- C. SNMP polling at 5-minute intervals
- D. Monthly network utilization reports

Answer: A,B

Explanation:

In Cumulus Linux, microbursts are short-lived, high-volume traffic bursts that often go undetected by coarse-grained monitoring like SNMP.

The two tools specifically used for this purpose are:

- * What Just Happened (WJH)
"WJH provides real-time packet drop visibility and classifies drops by reason (e.g., congestion, ACLs, etc.), enabling microburst detection."
- * **ASIC monitoring at millisecond granularity**
"Deep telemetry is enabled via the switch ASIC, which provides sub-second counters that capture microburst patterns otherwise missed by SNMP."

Incorrect Options:

* A and C provide low-frequency sampling, insufficient for microbursts which last milliseconds.
Reference: NVIDIA NetQ & Cumulus Linux Documentation - What Just Happened (WJH)

NEW QUESTION # 71

You are using NVIDIA Air to simulate a Spectrum-X network for AI workloads. You want to ensure that your network configurations are optimal before deployment.

Which NVIDIA tool can be integrated with Air to validate network configurations in the digital twin environment?

- A. DOCA
- B. GPU Cloud
- C. Spectrum-X Manager
- D. NetQ

Answer: D

Explanation:

NVIDIA NetQ is a highly scalable network operations toolset that provides visibility, troubleshooting, and validation of networks in real-time. It delivers actionable insights and operational intelligence about the health of data center networks—from the container or host all the way to the switch and port—enabling a NetDevOps approach.

NetQ can be used as the functional test platform for the network CI/CD in conjunction with NVIDIA Air.

Customers benefit from testing the new configuration with NetQ in the NVIDIA Air environment ("digital twin") and fix errors before deploying to their production.

NEW QUESTION # 72

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