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NVIDIA NCP-ARI

NVIDIA AI Rack and Interconnect Certification Exam

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Question: 1

A colocation provider preparing whips for an incoming GB200 NVL72 rack asks whether the tenant needs the facility's negative 48 V DC plant, since the rack is advertised as using DC busbar power distribution to its compute trays. How should the deployment technician explain the rack's actual input requirement?

A. The rack needs the facility DC plant, because the NVLink cartridge backplane is fed straight from the busbar and cannot tolerate rectifier ripple at full load.
B. The rack needs AC only for its fans and management plane, while the compute trays pull their main load from the facility's separate DC distribution plant.
C. The rack accepts either AC whips or the 48 V plant, because its power shelves auto-range between rectifier duty and a direct DC pass-through operating mode.
D. The rack takes standard three-phase AC whips; its internal power shelves rectify that input and energize the DC busbar that serves the compute trays.

Answer: D

Explanation:
The GB200 NVL72 rack receives standard three-phase AC power from the facility. Internal power shelves convert the AC input to DC and supply the rack's DC busbar, which then distributes power to the compute trays.

Question: 2

Floor planning for the retrofit shows the replacement AI racks are wider than the 600 mm cabinets they displace, which breaks the room's tile-aligned row pitch. A stakeholder asks what the extra width actually buys before approving the disruptive new layout. Which explanation is accurate?

A. The added width forms a side air plenum letting the rack draw intake air laterally when containment doors restrict frontal airflow.
B. The added width creates side volume for vertical cable management, power delivery hardware, and liquid manifolds beside the equipment rails.
C. The added width lets two half-width compute nodes mount side by side per U, doubling density without changing the rack height budget.
D. The added width spreads the rack's mass across more floor tiles, bringing point loading back within standard raised-floor tile ratings.

Answer: B

Explanation:
The additional rack width provides valuable side space beside the equipment rails. This space supports vertical cable management, power-delivery components, and liquid-cooling manifolds required by dense AI infrastructure.

Question: 3

A technician must verify phase balance at an energized 415 V three-phase remote power panel serving the expansion row. The panel carries an arc flash label from last year's incident energy study, and the hall's PPE locker stocks several categories of gear. What governs what the technician wears and where he stands?

A. Arc flash controls begin above 600 V, so a 415 V panel calls for shock PPE and insulated tools by

themselves.
B. The label's incident energy and arc flash boundary set the PPE category and the standoff for this task.
C. The boundary takes effect once covers come off, so closed-door verification needs standard gloves at most.
D. A category 2, 8 cal per cm2 kit covers data center panels, which fall below the study's analysis threshold.
Answer: B
Explanation:
The arc flash label provides the incident-energy information and defined arc flash boundary for the equipment. These values determine the required PPE and the safe working distance for the specific task.

Question: 4

Above the audited rows, inter-rack bundles span up to 1.5 m between overhead support points and sag visibly at mid-span, and freshly landed bundles hang loose for their first couple of meters before entering the rack's cable management hardware. Which guideline pair applies to these findings?

A. Support cables at least every two feet (60 cm) along the run, and guide a bundle's first 8 feet into management.
B. Support spacing scales with bundle weight, so fiber-only spans may run 2 m between points if sag stays under 10 cm.
C. The sag is acceptable while jacket tension stays low; the true defect is only the unguided tails at the rack entries.
D. Support cables at least every meter along the run, and guide a bundle's first 3 feet into management hardware.
Answer: A
Explanation:
Cable bundles should receive frequent mechanical support to prevent sag and excessive strain. The guidance calls for support approximately every 60 cm and for the first 8 feet of an arriving bundle to be guided into cable-management hardware.

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