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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Data Centre Life Cycle and Standards: This section of the exam measures the skills of data center professionals and covers the various stages involved in the life cycle of a data center, from planning and design to implementation and decommissioning.
Topic 2	<ul style="list-style-type: none">• Designing and Implementing a Data Centre: In this module, the exam assesses the knowledge of Exin data center professionals tasked with the design and implementation of data centers. Candidates will learn the key principles of creating an efficient data center layout, including considerations for scalability, redundancy, and security.
Topic 3	<ul style="list-style-type: none">• Data Centre Environmental Considerations and Efficiency: This section evaluates the proficiency of data center professionals in addressing environmental factors and promoting efficiency within data center operations. The target audience, including data center managers and engineers, will be tested on their ability to identify and implement measures that enhance energy efficiency, cooling management, and sustainable practices.

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q108-Q113):

NEW QUESTION # 108

What is the main disadvantage of using a ToR (Top of Rack) design?

- **A. There will be more switches to manage.**
- B. You need a separate rack to install all your ToR (Top of Rack) switches.
- C. A single ToR (Top of Rack) switch is more expensive than an EoR (End of Row) switch.
- D. A ToR (Top of Rack) switch has only optical interfaces.

Answer: A

Explanation:

A Top of Rack (ToR) design typically requires more switches because each rack has its own switch to manage network connections, as opposed to End of Row (EoR) or centralized designs, which consolidate switches. While ToR designs improve cabling efficiency and reduce latency, they also increase the number of switches, thus raising management complexity and potentially increasing capital and operational costs.

Detailed Explanation:

In a ToR setup, each rack's individual switch allows for quick access and streamlined cabling within the rack. However, this setup means more devices to configure, monitor, and maintain, which can increase administrative overhead and network management complexity.

EPI Data Center Specialist References:

EPI documentation notes that ToR designs can improve performance but also lead to increased management needs due to the higher switch count, making them less ideal in environments where simplified network management is prioritized.

NEW QUESTION # 109

Management has requested a 15-minute battery bank assuming full load on the UPS. The UPS vendor has provided the following specifications of the UPS:

- * Rated power: 30 kVA
- * Rectifier input voltage: 400 V/3 phase
- * Rectifier input power factor: 0.8
- * Battery rated voltage: 384 V
- * Number of cells: 192
- * End of discharge voltage: 308 V
- * Inverter output voltage: 400 V/3 phase
- * Inverter output power factor: 0.8

What information is missing to perform the battery calculation?

- **A. UPS efficiency**
- B. Inverter efficiency
- C. Available battery charging current
- D. Load imbalance on the phases

Answer: A

Explanation:

To determine the required capacity of the battery bank for the 15-minute runtime at full load, one must know the total power requirement that the battery bank must supply. The specifications provided include most of the necessary details, such as rated power, input voltage, battery voltage, and discharge voltage. However, one critical piece of information is missing: the UPS efficiency.

Detailed Explanation:

In a data center UPS system, the battery bank is designed to supply power for a set duration when there is an input power failure. The UPS efficiency affects the actual power the UPS can deliver to the load compared to the power it draws from the batteries. The efficiency factor is necessary to accurately calculate the required capacity of the battery bank since it determines how much input power is needed from the batteries to supply the load at full capacity. The formula typically used to determine battery capacity involves factoring in UPS efficiency, as it allows you to understand the losses within the UPS system.

If UPS efficiency is not considered, there would be an inaccurate estimation of the actual power needed from the batteries. For instance, if a UPS has 90% efficiency, only 90% of the power drawn from the batteries reaches the load. Without knowing this efficiency, it is not possible to calculate the battery bank size accurately, as you cannot accurately estimate the losses within the UPS itself.

EPI Data Center Specialist References:

According to EPI Data Center Specialist training, understanding the UPS efficiency is essential for battery sizing. Without it, the calculations could lead to either undersizing or oversizing the battery bank, which affects both reliability and cost-effectiveness of the UPS system. The EPI Data Center Specialist course emphasizes that battery sizing must account for all losses within the UPS system, with efficiency being a primary factor in these calculations.

NEW QUESTION # 110

What is the focus of the Open Compute Project (OCP)?

- A. Saving energy, materials, and costs
- B. Standardizing equipment only for hyperscale data centers
- C. Making cloud computing more accessible
- D. Developing an open-source operating system

Answer: A

Explanation:

The Open Compute Project (OCP), initiated by Facebook in 2011, focuses on open designs for servers, storage, racks, and power systems. The goals are:

- * Reduce energy consumption by using efficient hardware.
- * Save materials by eliminating unnecessary components.
- * Lower costs by standardizing and sharing open designs.

Option B is wrong-OCP hardware can be adopted by enterprises as well. Option C is unrelated (OCP is hardware, not OS).

Option D is broader cloud adoption, not OCP's direct mission.

Thus, the primary focus is energy, material, and cost savings through open-source hardware.

References: OCP Foundation Mission Statement, ANSI/TIA-942-B Annex (Emerging Technologies).

NEW QUESTION # 111

What is the effect of having a damper (in open position) construction in a raised-floor tile?

- A. Dampers increase the air volume by approximately 10%
- B. Dampers allow for a higher supply air temperature
- C. Dampers reduce the air volume by approximately 10%
- D. Dampers can be used when there is a high rate of temperature change in the computer room

Answer: C

Explanation:

Perforated tiles with integrated dampers are common in raised-floor data centers because they allow airflow regulation at the rack level. However, even when the damper is fully open, the mechanism inside the tile restricts airflow. This typically reduces the delivered airflow by around 10% compared to a non-dampened tile of the same type.

* Option A is incorrect because dampers do not affect supply temperature; they only throttle volume.

* Option B is wrong since dampers cannot increase volume—they only add resistance.

* Option D is partially true that dampers help with temperature balancing, but the main effect (in open position) is volume reduction.

Thus, the technical impact of dampers in open position is a slight airflow reduction, usually quantified as ~10%.

References: ASHRAE TC 9.9 - "Airflow Management in Raised-Floor Environments," ANSI/TIA-942-B §6.5 (Cooling Infrastructure).

NEW QUESTION # 112

EMF shielding material needs to be installed as EMF levels from the transformer room into the computer room are measured at 100 mG. The transformer room is ~10 meters away, separated by a corridor. Where should shielding be installed?

- A. As close as possible to the transformer room
- B. Shielding is not required as 100 mG is within acceptable levels
- C. As close as possible to the computer room
- D. It does not matter; either close to the transformer room or computer room is okay

Answer: A

Explanation:

The most effective EMF mitigation is to install shielding as close as possible to the source of radiation. By blocking or redirecting magnetic flux at the origin (the transformer room walls), the overall field propagation into adjacent areas is minimized. If shielding were placed at the computer room, the field would already have spread over the intervening space, requiring more material and higher cost.

Standards such as IEEE Std 299 (EMC Shielding Effectiveness) and IEC 61000 emphasize source-based mitigation. Additionally, ANSI/TIA-942 requires EMF shielding where magnetic flux exceeds recommended ICT thresholds (generally <5 mG for sensitive tape/disk storage).

Although 100 mG is often tolerated by modern equipment, legacy magnetic storage can be affected, so shielding is still prudent. Hence, the correct location is at the transformer room wall.

References: IEEE Std 299 (EMI Shielding), ANSI/TIA-942-B §6.6.4 (EMF Requirements), IEC 61000 EMC standards.

NEW QUESTION # 113

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