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EXIN-CDCP Exam

Certified Data Centre Professional

Questions & Answers
(Demo Version – Limited Content)

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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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 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.
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EXIN EPI Certified Data Centre Specialist Sample Questions (Q59-Q64):

NEW QUESTION # 59

An MCB needs to be installed in the PDU of an air-conditioner unit.

Which breaking curve should you select?

- A. D-Curve
- B. A-Curve
- **C. C-Curve**
- D. B-Curve

Answer: C

Explanation:

For an MCB (Miniature Circuit Breaker) in the PDU of an air-conditioning unit, a C-Curve is recommended. C-Curve breakers are suitable for circuits with moderate inrush currents, such as those experienced in air conditioning units. They provide protection against overloads while accommodating the inrush without nuisance tripping.

Detailed Explanation:

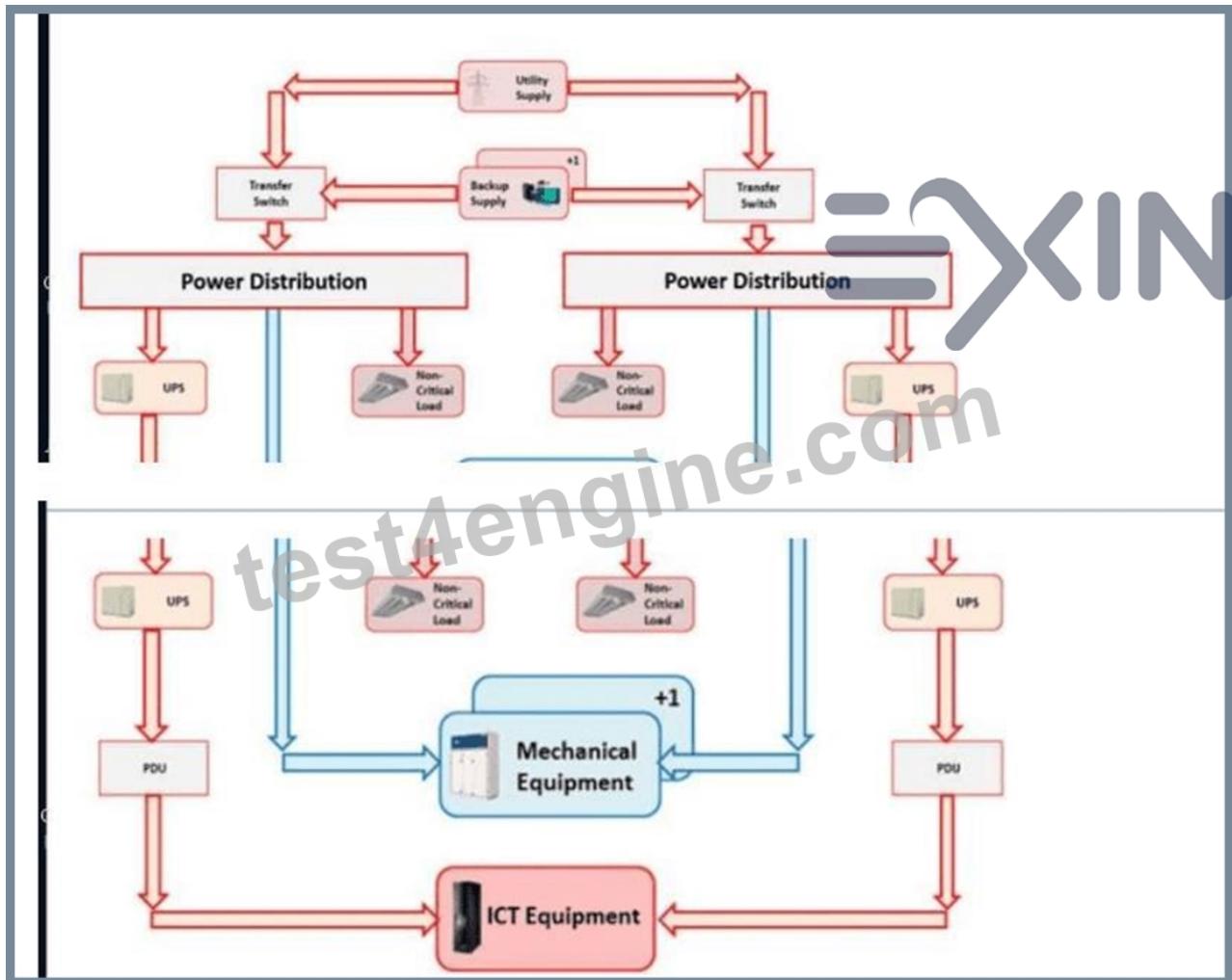
C-Curve breakers trip when currents exceed 5 to 10 times the rated current, making them ideal for devices like air conditioners that experience moderate inrush currents upon startup. This characteristic provides a balance between protection and resilience against startup surges, preventing unnecessary trips while safeguarding the circuit.

EPI Data Center Specialist References:

EPI guidance for data center electrical systems specifies that C-Curve breakers are appropriate for equipment with inrush characteristics similar to air conditioning units, as they help prevent operational interruptions caused by typical surges during equipment start-up.

NEW QUESTION # 60

The logical overview of the data center looks as pictured. To what TIA-942 Rating is this design made based on electrical only?



- A. Rating - 4
- B. Rating - 3
- C. Rating - 2
- D. Rating - 1

Answer: A

Explanation:

The electrical design shown in the diagrams represents a TIA-942 Rating-4 configuration. This design includes full redundancy and fault tolerance, as demonstrated by the dual power distribution paths from the utility supply to the critical loads. Each power distribution path is equipped with its own UPS, ensuring that the ICT equipment and mechanical equipment have uninterrupted power in case of any single point of failure.

Detailed Explanation:

A Rating-4 data center requires two independent power paths that are fully redundant and capable of supporting the load independently. In the diagrams:

- * There are dual feeds from the utility supply, each going through separate transfer switches and power distribution paths.
- * Both paths have backup sources (+1) and serve critical components through separate UPS systems, providing a completely redundant setup.

* The design also includes redundant paths to the mechanical equipment and ICT equipment, which further indicates the fault-tolerant characteristics of a Rating-4 infrastructure.

This setup allows for concurrent maintainability and ensures that no single failure in power distribution or UPS can impact the data center's operation, which is characteristic of the highest Tier/Rated-4 classification.

EPI Data Center Specialist References:

EPI guidelines confirm that TIA-942 Rating-4 requires full redundancy and fault tolerance for electrical infrastructure, ensuring continuous operation even during maintenance or failure events. This design meets all those requirements, thus aligning with Rating-4 standards.

NEW QUESTION # 61

The 'maximum exposed area' of the fire-rated glass is defined by the supplier as 3 sqm/32 sqft. The window area is 4 sqm/43 sqft. What would be the best option?

- A. Do not use fire-rated glass due to the size limit and replace it with normal glass.
- B. Split the window in two equal parts using an aluminum frame.
- C. **Split the window into parts smaller than specified as the maximum exposed area and ensure fire-rated frames are used.**
- D. Split the window in two equal parts fitted together with transparent silicon glue.

Answer: C

Explanation:

When the window area exceeds the maximum exposed area specified for fire-rated glass, it is necessary to split the window into sections that comply with the fire rating requirements. This means creating smaller sections that are each within the 3 sqm/32 sqft limit and using fire-rated frames to ensure that the entire assembly meets fire safety standards. This approach maintains the fire-rated integrity of the glass, while allowing for larger window areas.

Detailed Explanation:

Fire-rated glass is designed to contain fire and prevent it from spreading. If the window exceeds the maximum exposed area defined by the supplier, the integrity of the fire-rated glass could be compromised. By dividing the window into compliant sections with fire-rated frames, you ensure that each pane performs as intended in the event of a fire. Fire-rated frames help maintain the fire resistance across the entire assembly, making this option the best for safety and compliance.

EPI Data Center Specialist References:

EPI recommends adhering strictly to fire safety standards, especially when using materials like fire-rated glass. The guidelines emphasize that modifications should always respect the manufacturer's specifications to ensure the system remains effective in containing and preventing the spread of fire.

NEW QUESTION # 62

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

Answer: D

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-dampered 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 # 63

The UPS of a data center with ANSI/TIA-942 Rating-4 is installed with the rectifier connected to power feed A and the bypass/reserve input connected to power feed B. To which feed will the UPS output be synchronized?

- A. Feed B
- B. **Depends on UPS settings, as it can be set to either feed**
- C. The UPS will not synchronize to any feed but use an internal clock
- D. Feed A

Answer: B

Explanation:

Modern UPS systems can synchronize their output to an external reference, either from the rectifier input (Feed A) or from the bypass input (Feed B). Synchronization ensures seamless transfer between normal and bypass operation.

The configuration depends on user or vendor settings:

- * If synchronized to the bypass (Feed B), the UPS can quickly transfer to bypass during overload or failure.
- * If synchronized to the rectifier (Feed A), the UPS maintains stable output independent of bypass conditions.

ANSI/TIA-942 does not mandate which feed the UPS must synchronize to, only that redundancy be maintained across feeds in a Rating-4 design. Manufacturers typically allow the choice depending on operational preference.

References: IEC 62040-3 (UPS Operational Modes), ANSI/TIA-942-B §6.2 (Electrical Redundancy).

NEW QUESTION # 64

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