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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 3	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 (Q71-Q76):

NEW QUESTION # 71

What mainly affects the cooling capacity of a raised floor tile?

- A. Relative humidity in the computer room, temperature of the cold air, pressure under the raised floor, construction material of the tile
- B. Percentage of the surface opening, airflow direction of the ICT equipment, temperature difference between the air intake and air exhaust of the ICT equipment, construction material of the tile
- **C. Percentage of the surface opening, obstruction of the supporting construction, pressure under the raised floor, damper construction**
- D. Type of ICT equipment, location of the air conditioner, pressure under the raised floor, allowable temperature in the hot aisle

Answer: C

Explanation:

The cooling capacity of a raised floor tile is primarily influenced by the percentage of surface opening, the obstruction caused by the supporting construction, the pressure under the raised floor, and the damper construction. These factors dictate how much airflow can pass through the tile and how effectively cool air is distributed to the equipment in the data center.

Detailed Explanation:

The percentage of surface opening on a floor tile affects how much air can flow through, with larger openings allowing more airflow. Supporting structures beneath the floor can obstruct airflow, reducing cooling efficiency. Pressure under the raised floor impacts the velocity and volume of air that moves through the tile.

Additionally, if dampers are installed, they control the airflow rate, which can be adjusted to meet specific cooling needs for the area.

EPI Data Center Specialist References:

EPI guidance on airflow management under raised floors emphasizes these factors as critical for effective cooling, especially in high-density areas. Ensuring unobstructed and adequate airflow helps maintain consistent cooling across equipment.

NEW QUESTION # 72

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

Which breaking curve should you select?

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

Answer: D

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 # 73

Three data centers are benchmarked on facilities energy efficiency.

Data center A has achieved a PUE of 2.45.

Data center B has achieved a PUE of 1.20.

Data center C has achieved a PUE of 1.90.

Which of the data centers is operating at the highest facility efficiency?

- **A. Data center A**
- B. Data center B

- C. PUE does not indicate efficiency
- D. Data center C

Answer: A

Explanation:

A Power Usage Effectiveness (PUE) of 1.20 (achieved by Data Center B) indicates the highest facility efficiency among the three data centers. A lower PUE value signifies better energy efficiency, as it means that a greater proportion of the total energy consumed is used directly for IT equipment rather than for cooling, lighting, or other facility needs.

Detailed Explanation:

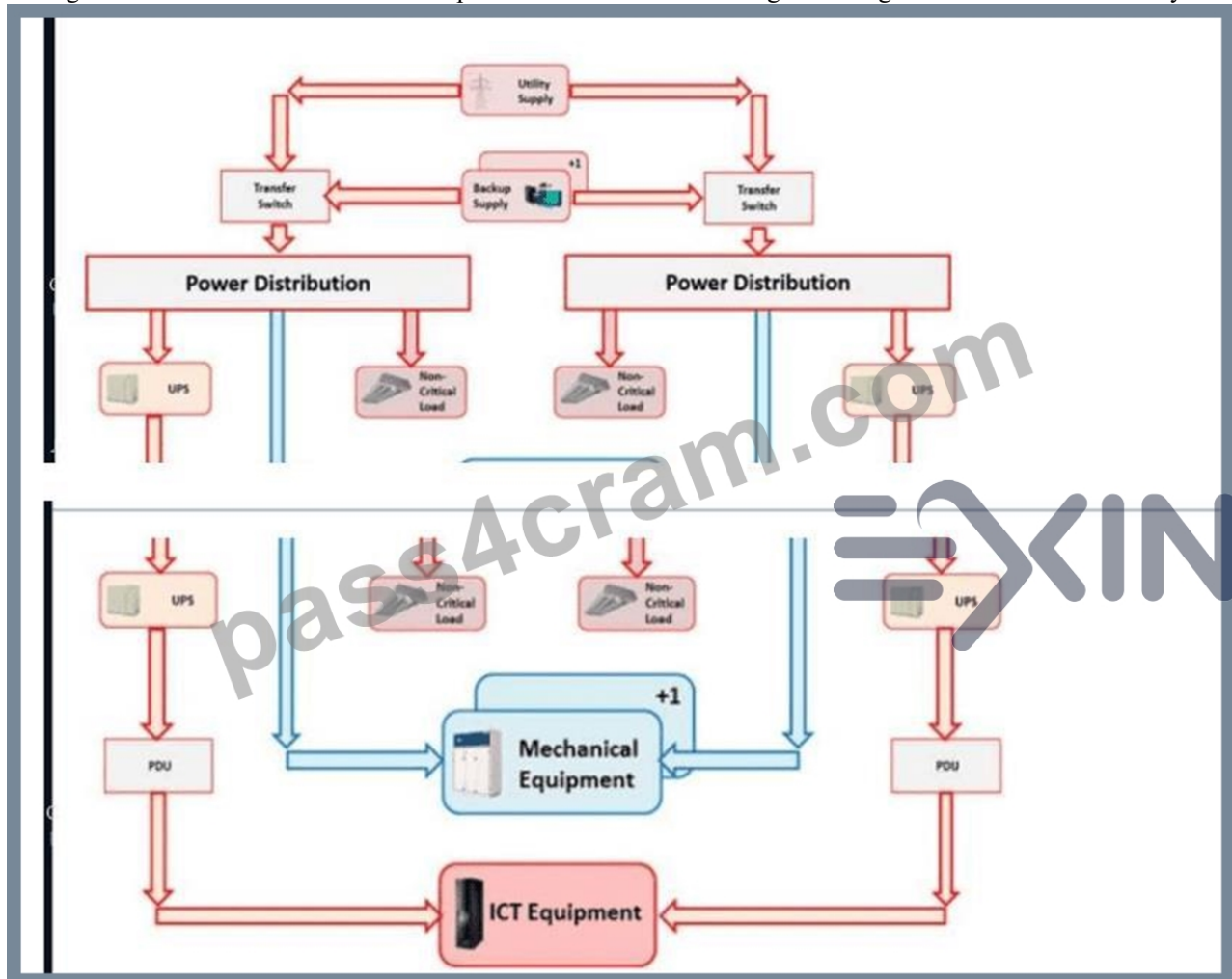
PUE is calculated as the ratio of total facility energy to IT equipment energy. A PUE close to 1.0 suggests that almost all the energy is dedicated to computing processes, with minimal overhead. With PUE values of 2.45, 1.20, and 1.90, Data Center B (1.20) operates most efficiently by devoting a higher percentage of its total energy to IT equipment.

EPI Data Center Specialist References:

The EPI curriculum emphasizes PUE as a key metric for data center efficiency, with lower values representing better performance. Achieving a PUE near 1.0 aligns with industry best practices for energy-efficient data center design and operation.

NEW QUESTION # 74

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 - 2
- C. Rating - 3
- 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 # 75

A sprinkler system employs automatic sprinklers attached to a piping system containing water and connected to a water supply so that water discharges immediately when a head opens. What is this called?

- **A. Wet pipe system**
- B. Deluge system
- C. Pre-action system
- D. Dry pipe system

Answer: A

Explanation:

In a wet pipe system, the piping is always filled with water under pressure. When a sprinkler head is triggered by heat, water is discharged immediately. This is the most common sprinkler system for general buildings.

- * Dry pipe: Pipes contain air or nitrogen; water enters only after valve activation.
- * Deluge: Pipes are empty, and all heads open simultaneously, releasing water everywhere.
- * Pre-action: Pipes are dry until detection and valve activation; reduces accidental discharge risk, recommended for IT rooms.

Since the definition describes immediate discharge from water-filled pipes, this is a wet pipe system.

References: NFPA 13 §3.3 (System Definitions), NFPA 75 §5.4.3 (IT room considerations).

NEW QUESTION # 76

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