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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">• 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 3	<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.
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EXIN EPI Certified Data Centre Specialist Sample Questions (Q102-Q107):

NEW QUESTION # 102

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

Which breaking curve should you select?

- A. B-Curve
- B. D-Curve
- **C. C-Curve**
- D. A-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 # 103

The location of a data center is just above the Arctic Circle (North Pole). The outside air temperature is never above 21°C/70°F. Taking energy efficiency as the highest priority, which cooling system should you recommend?

- A. Standard air conditioning units, as spares might not be readily available
- **B. Airside economizer**
- C. Any cooling system can be efficient because the outside air temperature will not influence the temperature of the air intake of the ICT equipment
- D. Waterside economizer

Answer: B

Explanation:

In locations with consistently cold temperatures, such as above the Arctic Circle, an airside economizer is the most energy-efficient

cooling solution. Airside economizers use cool outside air to lower indoor temperatures, reducing or even eliminating the need for mechanical cooling. Given the consistently low temperatures, this method maximizes energy efficiency by leveraging natural cooling.

Detailed Explanation:

Airside economizers are ideal in environments where outside temperatures are consistently low. By drawing in and filtering cold outdoor air, they directly cool the indoor environment, thereby reducing energy consumption significantly compared to traditional air conditioning. This cooling approach aligns with energy efficiency goals by minimizing mechanical cooling demands.

EPI Data Center Specialist References:

EPI recommends the use of airside economizers in cold climates to achieve high energy efficiency, as they allow data centers to capitalize on ambient conditions for cooling, aligning with sustainability and cost-saving practices.

NEW QUESTION # 104

A customer requires THDi from the UPS not to exceed 3% and wants high efficiency. The UPS has a 6-pulse SCR/thyristor rectifier and is loaded ~80%. Many ICT changes are expected in the next 3 years. What should you recommend?

- A. Install a passive harmonic filter on the UPS
- B. Install an isolation transformer rated K13 or K20
- **C. Install an active harmonic filter on the UPS**
- D. Nothing; the UPS will keep THDi at the right levels

Answer: C

Explanation:

A 6-pulse thyristor rectifier typically produces 25-35% THDi at nominal load. To reach #3% THDi, an active harmonic filter (or a 12/18-pulse or IGBT rectifier UPS) is required. Passive filters are load-specific and less effective over a wide operating range-undesirable with frequent changes.

References: IEEE 519-2014 (harmonic current limits), UPS vendor application notes (6-pulse vs IGBT rectifier THDi), ANSI/TIA-942-B Annex (power quality).

NEW QUESTION # 105

What is the main reason to install Earth Leakage protection?

- A. Protection of ICT equipment against high-frequency noise currents
- B. Protection against lightning strikes
- **C. Protection of human lives**
- D. Improvement of the data center grounding/earthing system

Answer: C

Explanation:

Earth Leakage Protection is primarily installed to protect human lives by detecting and disconnecting power when a fault current flows to the ground. This type of protection is essential to avoid electrical shock hazards that could occur when insulation fails, or equipment is improperly grounded.

Detailed Explanation:

Earth leakage currents can occur due to insulation faults or accidental contact with live parts. Earth Leakage Protection systems, such as Residual Current Devices (RCDs), quickly detect these faults and disconnect the circuit to prevent harm to personnel. This is especially crucial in environments like data centers where high-powered equipment is continuously running and any electrical fault can pose significant safety risks.

EPI Data Center Specialist References:

EPI emphasizes that human safety is paramount in data center operations. Proper grounding and leakage protection are fundamental safety measures, and EPI guidelines align with this focus, underscoring the importance of protecting personnel from electrical hazards through appropriate safety systems.

NEW QUESTION # 106

What is the first step in the design stage of the data center life cycle?

- A. Freeze the design
- B. Do a design validation

- C. Select vendors
- D. Define the scope of the project

Answer: D

Explanation:

The life cycle begins with planning and design. The very first step is to clearly define the project scope: business requirements, capacity, availability targets, compliance standards, and budget. Without scope definition, design validation or vendor selection would be premature.

* Vendor selection (A) happens much later during procurement.

* Validation (B) occurs after conceptual and detailed designs are prepared.

* Freezing design (D) is the final stage before implementation.

Therefore, defining the project scope is the correct initial step.

References: ANSI/TIA-942-B Annex F (Lifecycle), ISO/IEC 30182 (Smart City & DC Lifecycle), PMI PMBOK (Scope Definition).

NEW QUESTION # 107

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