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EXIN EPI Certified Data Centre Specialist Sample Questions (Q121-Q126):

NEW QUESTION # 121

What is forced entry resistance based on?

- A. The number of security guards on duty
- B. Rate and installed number of CCTV cameras
- C. Time, tools, and people
- D. Building materials used and the location of the data center

Answer: C

Explanation:

Forced-entry ratings use defined attack tools and durations (time-to-breach) executed by attacker profiles.

References: EN 1627-1630 (Resistance Classes-tools and time), UL 972/UL 752 (attack tools/time).

NEW QUESTION # 122

A computer room with raised floor and hot/cold aisles is designed. What is the minimum required distance between the air-conditioner outlet and the first rack?

- A. 120 cm (4 ft)
- B. 60 cm (2 ft)
- C. 180 cm (6 ft)
- D. None

Answer: A

Explanation:

To ensure uniform air distribution, there must be a buffer zone between CRAC/CRAH discharge and the first row of racks. Industry best practice (ASHRAE & TIA-942) specifies at least 1.2 m (4 ft).

* Less than 1.2 m risks air velocity hotspots and turbulence, disrupting cold aisle containment.

* More than 1.8 m wastes valuable floor space without added benefit.

Thus, 120 cm is the recommended minimum.

References: ANSI/TIA-942-B §6.5.3 (CRAC placement), ASHRAE TC 9.9 Thermal Guidelines.

NEW QUESTION # 123

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

Which breaking curve should you select?

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

Answer: A

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 # 124

Racks with 1.0 m depth and cold aisle containment with 3 perforated tiles are used. What aisle pitch is recommended?

- A. 5 tiles pitch rule
- B. 10 tiles pitch rule
- C. 8 tiles pitch rule
- **D. 7 tiles pitch rule**

Answer: D

Explanation:

The aisle pitch is the total width of a rack row plus cold aisle plus rack row. For 1.0 m racks on each side with cold aisle containment, ASHRAE and TIA-942 recommend the 7-tile rule (each tile ~0.6 m). This ensures enough width for equipment clearance, airflow distribution, and human access.

* 5-tile pitch is too narrow, restricting containment effectiveness.

* 8-10 tiles may be used in some hyperscale layouts but are not standard for 1 m racks.

Thus, the correct design recommendation is the 7 tiles pitch rule.

References: ANSI/TIA-942-B §6.3.6 (Aisle Spacing), ASHRAE TC 9.9 "Airflow Management Best Practices."

NEW QUESTION # 125

You are working with a customer who requires a guarantee that THDi levels coming from the UPS should not exceed more than 3% THDi. Furthermore, he wants to run a power-efficient data center. The UPS has a 6-Pulse SCR/Thyristor based rectifier. The current load on the UPS is approximately 80%. The customer indicates they are not expecting any changes on the ICT infrastructure for the next 3 years.

What should you recommend?

- A. Install an isolation transformer rated at K13 or K20
- B. Nothing, the UPS will be able to take care of the right levels of THDi
- C. Install a passive harmonic filter on the UPS
- **D. Install an active harmonic filter on the UPS**

Answer: D

Explanation:

Given the customer's requirement to limit Total Harmonic Distortion (THDi) to below 3% and the presence of a 6-pulse SCR/Thyristor-based rectifier, an active harmonic filter is the best solution. A 6-pulse rectifier typically generates higher harmonic distortion, often exceeding 3%, especially under substantial loads like 80%. An active harmonic filter dynamically monitors and compensates for harmonic distortion, effectively reducing THDi and supporting a more power-efficient operation, aligning with the customer's energy efficiency goals.

Detailed Explanation:

Passive harmonic filters can reduce harmonics but are less effective at maintaining low THDi levels under varying loads. Active filters offer real-time correction and can achieve lower THDi levels than passive filters, especially in systems with fluctuating loads or where strict harmonic limits are required. Installing an active harmonic filter will ensure compliance with the specified THDi limits and optimize power quality.

EPI Data Center Specialist References:

EPI guidance on power quality management recommends active harmonic filters for environments where strict THDi levels are necessary. Active filters offer better control over harmonic levels, supporting both compliance and operational efficiency.

NEW QUESTION # 126

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