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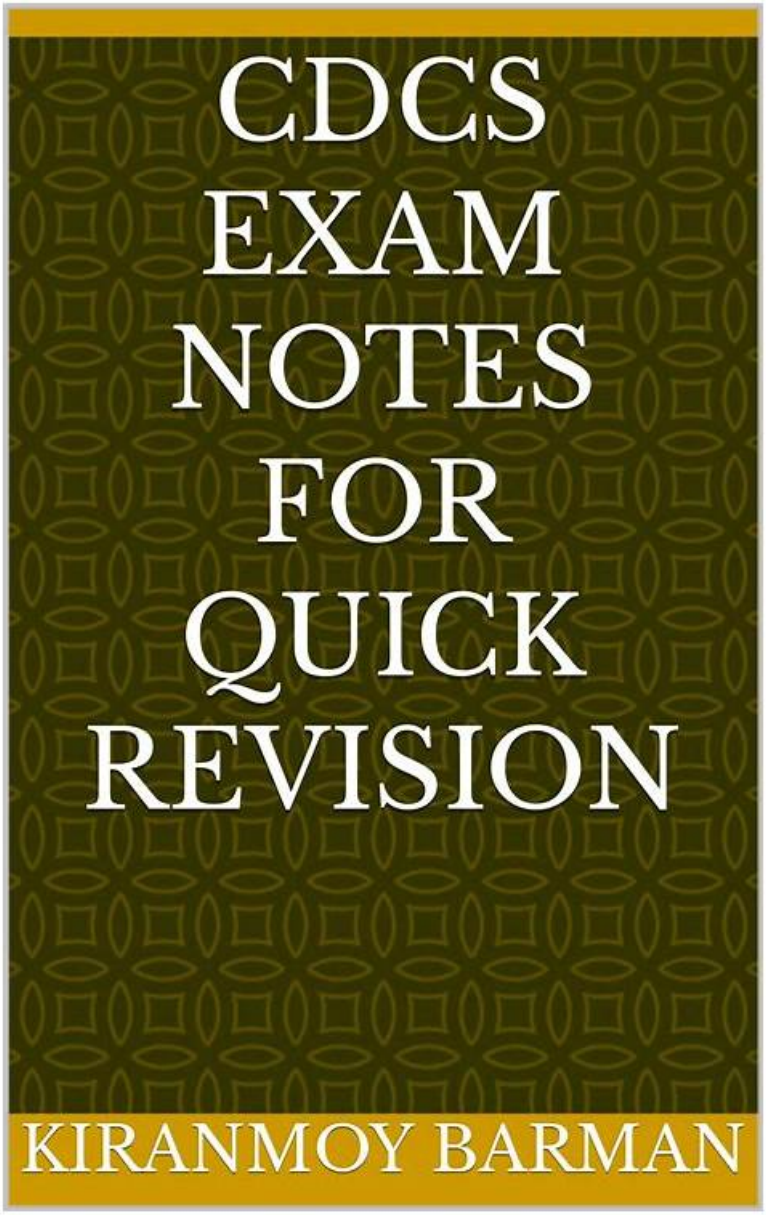

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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.

EXIN EPI Certified Data Centre Specialist Sample Questions (Q54-Q59):

NEW QUESTION # 54
Which of the following statements is correct?

- A. With voltage increasing, single-phase cables emit more EMF than three-phase cables
- B. With current decreasing, three-phase cables emit more EMF than single-phase cables
- C. With current increasing, single-phase cables emit more EMF than three-phase cables
- D. With voltage decreasing, three-phase cables emit more EMF than single-phase cables

Answer: C

Explanation:
Electromagnetic field (EMF) strength around cables is primarily influenced by current, not voltage. In a single-phase system, the live and neutral conductors are separated, creating a larger magnetic loop area. This produces stronger stray EMF when current increases.
In a balanced three-phase system, the magnetic fields from the three conductors largely cancel each other out, resulting in much lower net EMF, even at higher currents.
Therefore, the correct statement is that increasing current in single-phase cables produces higher EMF compared to three-phase cables. Options B, C, and D incorrectly link EMF to voltage or incorrect current behavior.
References: IEEE Std 141 (Red Book - Power Distribution), IEC 61000-5-7 (EMF mitigation guidelines), ANSI/TIA-942-B §6.6.

NEW QUESTION # 55
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. Inverter efficiency
- B. Available battery charging current
- C. UPS efficiency
- D. Load imbalance on the phases

Answer: C

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 # 56
A data center is in an area where utility power is highly available-only a few outages per year, typically <1 hour per event and <50 hours/year not available. What type of generators should be installed?

- A. Standby generators; no N+1 needed as the risk of a failure to start is negligible
- B. Standby generators, ideally in an N+1 configuration
- C. Continuous generators in at least N+1
- D. A combination of standby, prime, and continuous sized to 500% of the load

Answer: B

Explanation:
With infrequent/short outages, Standby (Emergency Standby Power, ESP) generators are appropriate; N+1 mitigates failure-to-start risk and supports concurrently maintainable designs.
References: ISO 8528-1 (generator rating definitions: ESP/PRP/Continuous), ANSI/TIA-942-B §6.2 (electrical redundancy).

NEW QUESTION # 57
Given: A = attenuation in dB, R = real measured value, M = maximum acceptable value. Which formula should be used to calculate the required attenuation factor of EMF shielding material?

- A. $A = 10 \log (M/R)$

- B. A = 10 log (R/M)
- C. A = 20 log (R/M)
- D. A = 20 log (M/R)

Answer: A

Explanation:
Attenuation is the logarithmic ratio between input and output signals. For power, we use 10 log; for voltage or current, 20 log. Since EMF shielding is measured as field strength (V/m or A/m), power relationship is proportional to the square of field. Thus the correct attenuation calculation for shielding effectiveness is:
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where:
* M = maximum permissible field strength
* R = measured field strength after shielding
This ensures the shield reduces field intensity to below allowable limits.
References: IEEE Std 299 (Shielding Effectiveness Measurement), IEC 61000-5-7 (EMC mitigation).

NEW QUESTION # 58
You have three UPS systems connected in parallel. The UPS systems have an imbalance in the load sharing of approximately 20%. What should you recommend?

- A. Review the cable lengths of each UPS to the common busbar
- B. Nothing, there is no reason for any concern
- C. Review the harmonics levels within the computer room
- D. Review the common mode noise levels within the computer room

Answer: A

Explanation:
An imbalance in load sharing between UPS systems connected in parallel can often result from unequal cable lengths to the common busbar. If the cabling from each UPS to the busbar varies significantly in length, it can lead to differences in impedance, resulting in uneven load distribution. Ensuring that cable lengths are consistent helps to balance the load sharing across the UPS systems.
Detailed Explanation:
Parallel UPS systems rely on uniform impedance to share loads evenly. Differences in cable lengths cause variations in resistance, leading to one or more UPS units carrying a disproportionate share of the load. Standardizing cable lengths ensures equal impedance, which promotes balanced load sharing and prevents one UPS from being overburdened, thus maintaining overall system reliability.
EPI Data Center Specialist References:
EPI guidelines recommend checking cable lengths when load imbalances occur in parallel UPS configurations. Ensuring equal lengths is a common method to resolve impedance issues that affect load distribution, which is critical for the stable operation of redundant power systems.

NEW QUESTION # 59
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