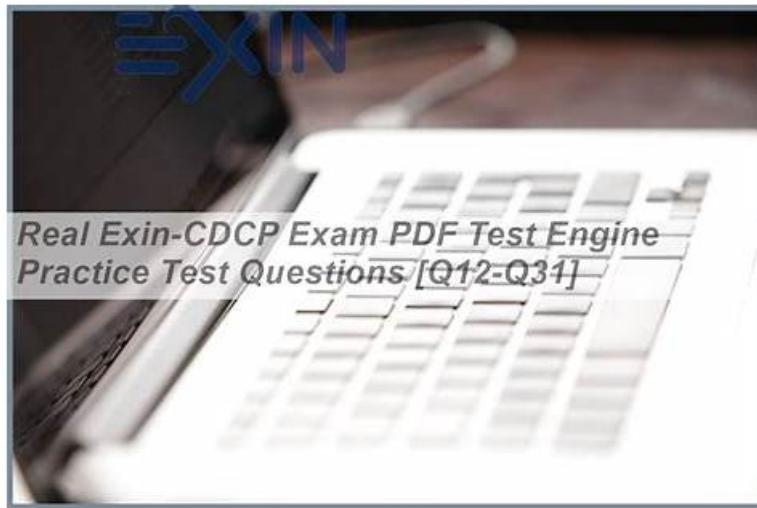


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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q118-Q123):

NEW QUESTION # 118

You are allowed to use a calculator for this question. A battery bank is rated at a total capacity of 600 Ah. Calculate how much charging current the rectifier should be able to supply as charging current.

- A. 12 Amperes
- B. 30 Amperes
- C. 60 Amperes
- D. 80 Amperes

Answer: B

Explanation:

To determine the charging current for a battery bank, a general rule of thumb is that the charging current should be 5% of the total battery capacity. For a battery rated at 600 Ah, this calculation would be:

$600 \text{ Ah} \times 0.05 = 30 \text{ Amperes}$ This ensures the battery is charged efficiently without overloading the rectifier or risking battery damage.

Detailed Explanation:

Battery charging current is typically set as a percentage of the battery's capacity to balance effective charging with longevity and safety. A 5% charging rate is standard for lead-acid batteries, which would be 30 Amperes for a 600 Ah battery bank.

EPI Data Center Specialist References:

EPI standards recommend calculating charging currents based on a percentage of the battery capacity to ensure safety and efficiency, aligning with best practices for battery management in data centers.

NEW QUESTION # 119

A computer room with a raised floor has been designed with racks in a hot/cold aisle setup.

What should you recommend for the placement of down-flow air conditioners?

- A. Air conditioners perpendicular to (at the end of the row of) the Hot-Aisle
- B. Air conditioners perpendicular to (at the end of the row of) the Cold-Aisle
- C. Air conditioner placement has no influence on cooling effectiveness and efficiency. Hence, they can be placed at any convenient location.
- D. Air conditioners should always be placed at both sides of each row of racks

Answer: B

Explanation:

In a hot/cold aisle configuration, placing down-flow air conditioners perpendicular to the cold aisle ensures that cool air is directed efficiently into the cold aisles where server intakes are located. This layout allows for optimal cooling performance by aligning the airflow directly with the equipment intakes, minimizing hot spots and enhancing cooling efficiency.

Detailed Explanation:

With a raised floor design, cold air from the air conditioners is supplied into the cold aisle, where server intakes are located. Positioning the air conditioning units perpendicular to the cold aisles ensures that cool air is delivered directly into these aisles, preventing air mixing and optimizing cooling. This setup takes full advantage of the airflow management strategy inherent to the hot/cold aisle configuration.

EPI Data Center Specialist References:

EPI guidelines on cooling emphasize that down-flow air conditioners should be positioned to maximize the effectiveness of cold aisle delivery, which improves cooling efficiency and helps maintain consistent temperatures across server racks.

NEW QUESTION # 120

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, obstruction of the supporting construction, pressure under the raised floor, damper construction
- C. 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
- D. Type of ICT equipment, location of the air conditioner, pressure under the raised floor, allowable temperature in the hot aisle

Answer: B

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 # 121

EMF shielding material needs to be installed as EMF levels from the transformer room into the computer room are measured at 100 mG. The transformer room is ~10 meters away, separated by a corridor. Where should shielding be installed?

- A. Shielding is not required as 100 mG is within acceptable levels
- B. As close as possible to the transformer room
- C. As close as possible to the computer room
- D. It does not matter; either close to the transformer room or computer room is okay

Answer: B

Explanation:

The most effective EMF mitigation is to install shielding as close as possible to the source of radiation. By blocking or redirecting magnetic flux at the origin (the transformer room walls), the overall field propagation into adjacent areas is minimized. If shielding were placed at the computer room, the field would already have spread over the intervening space, requiring more material and higher cost.

Standards such as IEEE Std 299 (EMC Shielding Effectiveness) and IEC 61000 emphasize source-based mitigation. Additionally, ANSI/TIA-942 requires EMF shielding where magnetic flux exceeds recommended ICT thresholds (generally <5 mG for sensitive tape/disk storage).

Although 100 mG is often tolerated by modern equipment, legacy magnetic storage can be affected, so shielding is still prudent. Hence, the correct location is at the transformer room wall.

References: IEEE Std 299 (EMI Shielding), ANSI/TIA-942-B §6.6.4 (EMF Requirements), IEC 61000 EMC standards.

NEW QUESTION # 122

What should you consider when using raised floor tiles with air deflectors or louvers?

- A. Tiles with air deflectors or louvers can only be used to cool storage equipment
- B. Tiles with air deflectors or louvers can be very heavy.
- C. Tiles with air deflectors or louvers do not allow for a flexible cooling solution.
- D. Tiles with air deflectors or louvers will reduce the cooling capacity of the tile.

Answer: B

Explanation:

Raised floor tiles with air deflectors or louvers are typically heavier than standard tiles due to the additional materials and mechanisms used to direct airflow. The added weight can pose challenges for installation and adjustment, and consideration must be given to the

floor's load capacity and ease of maintenance.

Detailed Explanation:

Tiles with deflectors or louvers help direct airflow, enhancing cooling efficiency by focusing cool air where needed. However, these tiles are often heavier, which can affect handling and require reinforced raised floor systems. It's essential to factor in the weight for any floor tile replacements or installations to ensure they are compatible with the raised floor's structural capacity.

EPI Data Center Specialist References:

EPI data center design training mentions the potential impact of heavy tiles on floor handling and load capacity. Data center operators need to plan for safe handling and load-bearing capacity when using such specialized tiles.

NEW QUESTION # 123

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