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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
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EXIN EPI Certified Data Centre Specialist Sample Questions (Q25-Q30):

NEW QUESTION # 25

In order to save energy, you are going to install an automated system to switch off lights. What should be taken into consideration when installing such a system?

- A. Security guards should perform regular inspections verifying the system works.
- B. The system should not be based on motion detection as the lights might suddenly switch off while staff is still at work.
- C. It is not advisable to use such a system since it will reduce the lifetime of LED lighting.
- D. At all times, the levels should allow for security cameras to function properly.

Answer: D

NEW QUESTION # 26

Do you need to consider blast protection when designing a data center?

- A. Yes, if the data center is a potential target or the building is located within the vicinity of (close by) a potential target.
- B. Yes, blast protection is a requirement of ANSI/TIA-942.
- C. No, blast protection is not a requirement of ANSI/TIA-942.
- D. No, there is no reason for implementing blast protection as nobody can predict the impact of a bomb explosion.

Answer: A

Explanation:

Blast protection should be considered if the data center or its location is a potential target or is near high-risk areas. Blast protection measures can protect both personnel and infrastructure from potential explosion impacts, which could be essential in areas with heightened security risks.

Detailed Explanation:

In areas where there may be risks of terrorist attacks or explosions due to nearby high-risk facilities, implementing blast protection measures helps safeguard the data center's infrastructure. These measures can include reinforced walls, blast-resistant windows, and secure entryways designed to withstand explosive forces.

EPI Data Center Specialist References:

While not specifically mandated by ANSI/TIA-942, EPI training advises considering local risk factors, including proximity to potential targets, when evaluating the need for blast protection. This approach is aligned with risk assessment and mitigation practices to ensure facility security.

NEW QUESTION # 27

What is the main disadvantage of using a ToR (Top of Rack) design?

- A. A single ToR (Top of Rack) switch is more expensive than an EoR (End of Row) switch.
- B. A ToR (Top of Rack) switch has only optical interfaces.
- C. You need a separate rack to install all your ToR (Top of Rack) switches.
- D. There will be more switches to manage.

Answer: D

Explanation:

A Top of Rack (ToR) design typically requires more switches because each rack has its own switch to manage network connections, as opposed to End of Row (EoR) or centralized designs, which consolidate switches. While ToR designs improve cabling efficiency and reduce latency, they also increase the number of switches, thus raising management complexity and potentially increasing capital and operational costs.

Detailed Explanation:

In a ToR setup, each rack's individual switch allows for quick access and streamlined cabling within the rack. However, this setup

means more devices to configure, monitor, and maintain, which can increase administrative overhead and network management complexity.

EPI Data Center Specialist References:

EPI documentation notes that ToR designs can improve performance but also lead to increased management needs due to the higher switch count, making them less ideal in environments where simplified network management is prioritized.

NEW QUESTION # 28

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

Answer: C

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:

$600 \text{ Ah} \times 0.05 = 30 \text{ Amperes}$ $600 \text{ Ah} \times 0.05 = 30 \text{ Amperes}$ 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 # 29

What is the minimum requirement for power feeds to a Rated-4 data center (ANSI/TIA-942)?

- A. Two feeds from one substation
- **B. Two feeds from two different substations, one power company acceptable**
- C. Two feeds from two different substations, one power company not acceptable
- D. One feed split into two distribution boards

Answer: B

Explanation:

A Rated-4 facility requires dual active utility feeds, each from an independent substation, but they may come from the same utility provider if substations are geographically separate and independent.

* Option A is too strict; ANSI/TIA-942 does not mandate two different companies.

* Options C and D do not provide true independence and would fail Rated-4 requirements.

Thus, the minimum is two substations, possibly same provider.



References: ANSI/TIA-942-B §6.2 (Utility Service Requirements).

NEW QUESTION # 30

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The Certified Production and CDCS certification is a valuable credential earned by individuals to validate their skills and competence to perform certain job tasks. Your EXIN EPI Certified Data Centre Specialist CDCS Certification is usually displayed as proof that you've been trained, educated, and prepared to meet the specific requirement for your professional role.

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