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GAQM CDCS-001

Certified Data Centre Specialist (CDCS)

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The CDCS-001 exam covers a wide range of topics related to data center management, including power and cooling, networking, storage, virtualization, security, and disaster recovery. CDCS-001 exam consists of 100 multiple-choice questions and must be completed within 120 minutes. The passing score for the exam is 70%, and candidates who pass the exam receive a certificate that is valid for three years.

GAQM Certified Data Centre Specialist (CDCS) Sample Questions (Q20-Q25):

NEW QUESTION # 20
For which one of these processes is Direct Current essential, and will not work with alternating current?

- A. Heating
- B. Electrolysis
- C. Lighting
- D. Turning a motor

Answer: B

Explanation:
Explanation
Direct Current (DC) is essential for the process of electrolysis. Electrolysis is the process of breaking down a compound using an electric current. The electric current causes ions to move, which results in a chemical reaction that breaks down the compound. In order for electrolysis to work, a direct current is required, as the ions must flow in one direction. Alternating Current (AC) changes direction and would not provide a consistent flow of ions.
Heating, lighting, and turning a motor can be done by either DC or AC. Heating can be done by passing an electric current through a heating element, which can be powered by either DC or AC. Lighting can be done by passing an electric current through a light bulb, which can be powered by either DC or AC. A motor can be powered by either DC or AC, but the type of motor and the application will determine which type of current is more suitable.

NEW QUESTION # 21
Which one of the following uses sensors such as laser beams or touch sensor?

- A. CCTV

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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"> • 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"> • 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 (Q74-Q79):

NEW QUESTION # 74

A battery bank has 800 Ah total capacity. How much charging current should the rectifier be able to supply?

- **A. 80 A**
- B. 40 A
- C. 160 A
- D. 60 A

Answer: A

Explanation:

Battery charging current is typically sized at 10% of the total Ah capacity to ensure safe charging without overheating.

Charging Current=800Ah×0.1=80A

* 40 A or 60 A would undercharge, extending recovery time after discharge.

* 160 A would be too high, causing heat and reducing battery life.

Thus, 80 A is correct.

References: IEEE Std 1188 (VRLA Battery Maintenance), IEC 60896-21/22 (Stationary Lead-Acid Batteries).

NEW QUESTION # 75

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

- A. You need a separate rack to install all your ToR (Top of Rack) switches.
- B. A ToR (Top of Rack) switch has only optical interfaces.
- C. A single ToR (Top of Rack) switch is more expensive than an EoR (End of Row) switch.
- **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 # 76

What is the sensible heat ratio (SHR)?

- A. Ratio of the latent heat to the total of sensible plus latent heat to be removed from a conditioned space
- B. Ratio of the cold-aisle temperature to the hot-aisle temperature
- C. Ratio of the sensible heat to the total of sensible plus latent heat to be removed from a conditioned space
- D. Ratio of cold-air supply to hot-air return temperature of a cooling system

Answer: C

Explanation:

SHR = Sensible Load / (Sensible + Latent Load); it describes the portion of the total cooling that is sensible (temperature change) versus latent (moisture removal).

References: ASHRAE Fundamentals Handbook (Psychrometrics/Load Calculations), ASHRAE TC 9.9.

NEW QUESTION # 77

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. UPS efficiency
- C. Available battery charging current
- D. Load imbalance on the phases

Answer: B

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 # 78

FM-200 is phasing out as a halocarbon gas and management has decided to replace this with the more environmentally friendly Novec-1230 gas. Should you use exactly the same formula and parameters to calculate the gas content for the Novec-1230 gas?

- A. Yes, as long as you use the same units of measure (kg/m³ or lbs/ft³)
- B. Yes, if you take the difference between the net and gross volume into account
- **C. Yes, if you change the S-factor of the formula to reflect the gas type used**
- D. Yes, as long as the temperature in the computer room has not changed

Answer: C

Explanation:

Halocarbon agents such as FM-200 (HFC-227ea) and Novec-1230 (FK-5-1-12) are both defined under NFPA 2001 and ISO 14520 as clean agents, but their required design concentrations and physical properties differ. When calculating agent quantity, the minimum extinguishing concentration (MEC) and safety factor (S) must be taken into account. The S-factor is specific to each agent and reflects differences in molecular weight, density, and flame suppression chemistry. For Novec-1230, the required design concentration is generally lower than for FM-200 (around 4.5-6% vs. 7-9%), but the calculation formula is the same except for substituting the correct S-factor. Therefore, you cannot reuse the exact formula parameters from FM-200; you must change the S-factor and apply Novec-1230's physical constants. This ensures compliance with NFPA 2001 Annex C, which provides correction formulas for room volume, temperature, and specific agent type. Using the wrong S-factor could result in underfilling or overfilling, compromising fire safety or increasing cost unnecessarily.

References: NFPA 2001 §5.4 (Agent Quantity), ISO 14520-5 (FK-5-1-12 properties), EXIN DCS Study Guide: Fire Suppression.

NEW QUESTION # 79

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