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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 EPI Certified Data Centre Specialist Sample Questions (Q26-Q31):

NEW QUESTION # 26

A new facility requires electrical distribution of 100A to be installed in the computer room, 1 m (3 ft) above sensitive IT equipment. What type of system minimizes EMF impact?

- A. Install bus bar trunking
- B. Install single-phase power cabling
- C. Install three-phase power cabling based on three individual core wires
- **D. Install three-phase power cabling based on a combined cable (e.g., XLPE)**

Answer: D

Explanation:

Electromagnetic fields are generated by current-carrying conductors. To minimize stray EMF, phase conductors should be physically close and balanced. A three-phase combined cable (all phase conductors and neutral in one sheath) ensures magnetic fields cancel each other due to phase opposition.

If phases are run separately (answer B), the separation increases loop area and magnetic field leakage. Single-phase cabling (A) is even worse because current does not balance across three phases. Bus bar trunking (C) provides physical support but often separates conductors, which may worsen EMF if not specifically shielded.

Therefore, the correct solution is three-phase combined cable (often XLPE-insulated). This design reduces EMF impact to within ANSI/TIA-942 and IEEE recommendations.

References: IEEE Std 141 (Red Book - Power Distribution), ANSI/TIA-942-B §6.6.4, IEC 60364 (Wiring Systems and EMF).

NEW QUESTION # 27

What precaution shall be taken for cabling leading into an equipment rack when a data center is in a seismic-prone area?

- A. Cables should be replaced by busbar trunking.
- B. Cables can be organized in any way as it is not important.
- C. Cables should be loosely organized to allow for movement and be latched at the connectors.
- **D. Cables shall be tightly organized to the rack and trays to avoid movement.**

Answer: D

Explanation:

In seismic-prone areas, cables should be tightly secured to racks and cable trays to minimize movement during seismic activity.

Properly securing the cables prevents them from being damaged due to excessive motion, which could lead to outages or damage to connected equipment.

Detailed Explanation:

Loose cables can be vulnerable to shaking or sudden jolts during an earthquake, increasing the risk of disconnection or damage. By tightly organizing and securing cables, you ensure they remain in place, even during significant movement, thereby maintaining connection integrity and reducing the risk of physical damage.

EPI Data Center Specialist References:

EPI training includes considerations for data centers in seismic zones, advising that cables be firmly anchored to support structures to reduce movement and mitigate potential damage during seismic events.

NEW QUESTION # 28

You are allowed to use a calculator for this question.

A computer room has a net volume of approximately 2,500 m³ / 88,287 ft³.

The temperature is 20 °C / 68 °F.

The required design concentration is 7%.

The S-Factor is 0.1359 (metric) / 1.885 (imperial).

Calculate the amount of gas required for this computer room based on FM200. What is the correct weight?

- A. Approximately 410 kg / 900 lbs
- **B. Approximately 820 kg / 1,800 lbs**
- C. Approximately 1,640 kg / 3,600 lbs
- D. Approximately 1,390 kg / 3,000 lbs

Answer: B

Explanation:

The amount of FM200 gas required can be calculated using the formula:

$\text{Weight of Gas} = \text{Net Volume} \times \text{Design Concentration} \times \text{S-Factor}$
 $\text{Weight of Gas} = \text{Net Volume} \times \text{Design Concentration} \times \text{S-Factor}$ Using metric units:

Net Volume: 2,500 m³

Design Concentration: 7% (or 0.07)

S-Factor: 0.1359

Calculation:

$2,500 \text{ m}^3 \times 0.07 \times 0.1359 = 821.325 \text{ kg}$

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