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1.If a waveform period is determined to be 10 microseconds in duration, what is the frequency of the signal?

- A. 100 kHz
- B. 10 kHz
- C. 1000 Hz
- D. 100 Hz

Answer: A

Explanation:

Frequency is the inverse of period, so to calculate the frequency of a signal with a period of 10 microseconds, you would divide 1 by the period, which is equal to 100 kHz.

2.Data Center Precision Cooling Systems maintain temperature within _____ degree(s) of their design set point.

- A. 1
- B. 2
- C. 3
- D. 5

Answer: A

3.True or False: Human error is a major cause of data center downtime

- A. True
- B. False

Answer: A

Explanation:

Human error is a major cause of data center downtime. Human mistakes are one of the top causes of data center outages, accounting for around one-third of all downtime incidents. Common causes of human error in data centers include misconfiguration, inadequate maintenance, and improper security practices. To reduce the risk of human error, it is important to ensure that data center staff receive proper training, have adequate access control measures in place, and are familiar with best practices for data center operations.

4.A _____ generator system is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment.

- A. passive
- B. standby
- C. active
- D. software

Answer: B

Explanation:

A Standby Generator System is a combination of an electrical generator and a mechanical engine mounted together to form a single piece of equipment. The generator provides power to essential appliances and equipment in the event of a power outage.

Standby Generator Systems are usually powered by gasoline, diesel, natural gas, or propane, and they are designed to be able to be activated quickly in the event of an emergency.

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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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 (Q44-Q49):

NEW QUESTION # 44

Three data centers are benchmarked on facilities energy efficiency.

Data center A has achieved a PUE of 2.45.

Data center B has achieved a PUE of 1.20.

Data center C has achieved a PUE of 1.90.

Which of the data centers is operating at the highest facility efficiency?

- A. Data center B
- **B. Data center A**
- C. PUE does not indicate efficiency
- D. Data center C

Answer: B

Explanation:

A Power Usage Effectiveness (PUE) of 1.20 (achieved by Data Center B) indicates the highest facility efficiency among the three data centers. A lower PUE value signifies better energy efficiency, as it means that a greater proportion of the total energy consumed is used directly for IT equipment rather than for cooling, lighting, or other facility needs.

Detailed Explanation:

PUE is calculated as the ratio of total facility energy to IT equipment energy. A PUE close to 1.0 suggests that almost all the energy is dedicated to computing processes, with minimal overhead. With PUE values of 2.45, 1.20, and 1.90, Data Center B (1.20) operates most efficiently by devoting a higher percentage of its total energy to IT equipment.

EPI Data Center Specialist References:

The EPI curriculum emphasizes PUE as a key metric for data center efficiency, with lower values representing better performance. Achieving a PUE near 1.0 aligns with industry best practices for energy-efficient data center design and operation.

NEW QUESTION # 45

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. 60 Amperes
- **B. 30 Amperes**
- C. 80 Amperes
- D. 12 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 # 46

An MCB needs to be installed in the PDU of an ICT rack. Which breaking curve should you select?

- A. C-Curve
- B. D-Curve
- C. B-Curve
- D. A-Curve

Answer: A

Explanation:

MCBs (Miniature Circuit Breakers) are characterized by their tripping curves:

* B-Curve: Trips at $3-5 \times$ rated current; suitable for resistive loads.

* C-Curve: Trips at $5-10 \times$ rated current; suitable for mixed loads including ICT equipment with moderate inrush current.

* D-Curve: Trips at $10-20 \times$ rated current; used for heavy inductive loads like motors.

* A-Curve: Very sensitive, rarely used outside specialty electronics.

Since ICT equipment like servers and network devices have moderate inrush currents (from power supplies), the recommended breaker is C-Curve. It balances protection against nuisance tripping while still ensuring fault clearance.

References: IEC 60898-1 (Circuit Breakers for Overcurrent Protection), IEC 60947-2 (LV Breakers), EXIN DCS study material: Electrical Distribution.

NEW QUESTION # 47

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 single ToR (Top of Rack) switch is more expensive than an EoR (End of Row) switch.
- C. There will be more switches to manage.
- D. A ToR (Top of Rack) switch has only optical interfaces.

Answer: C

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 # 48

You are working on the design of a new facility. The electrical riser of the building with high current power is located close to the area where sensitive IT equipment in the computer room will be located.

What should you recommend to reduce the amount of EMF coming from the electrical riser?

- A. Install single-phase power cabling
- B. Install bus bar trunking
- 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 etc.)**

Answer: D

Explanation:

To reduce Electromagnetic Fields (EMF) emanating from the electrical riser near sensitive IT equipment, three-phase power cabling in a combined cable (such as XLPE) is effective. Combined cabling helps reduce EMF by keeping the conductors tightly packed, which minimizes magnetic fields generated by current flow.

Cables like XLPE (cross-linked polyethylene) also offer better insulation, which helps mitigate EMF interference with nearby IT equipment.

Detailed Explanation:

Using a combined three-phase cable reduces EMF because the magnetic fields generated by each phase tend to cancel each other out when in close proximity. This arrangement helps reduce the overall magnetic field strength. In addition, XLPE and similar materials provide good insulation, making them a preferred choice for reducing EMF emissions around sensitive equipment.

EPI Data Center Specialist References:

EPI data center best practices recommend mitigating EMF interference through combined cabling arrangements, especially near areas where sensitive IT equipment is located. Reducing EMF is crucial to maintaining equipment reliability and ensuring compliance with safety standards.

NEW QUESTION # 49

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