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### EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Data Centre Environmental Considerations and Efficiency:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Data Centre Life Cycle and Standards:</b> 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.</li> </ul>

## EXIN EPI Certified Data Centre Specialist Sample Questions (Q18-Q23):

### NEW QUESTION # 18

The building in which the computer room is housed is required to have a sprinkler system. The building is therefore equipped with a wet pipe system.

What action, if any, should you recommend for the computer room?

- **A. Replace the wet pipe system with a pre-action system.**
- B. Maintain the current wet pipe system.
- C. Replace the wet pipe system with a deluge system.
- D. Replace the wet pipe system with a dry pipe system.

**Answer: A**

Explanation:

In computer rooms, replacing a wet pipe system with a pre-action system is advisable. Pre-action systems provide additional protection by requiring two triggers (e.g., heat and smoke) before water is released, minimizing the risk of accidental discharge and water damage, which is crucial for safeguarding sensitive IT equipment.

Detailed Explanation:

Wet pipe systems contain water in the pipes at all times, which poses a higher risk of accidental discharge.

Pre-action systems, however, only fill the pipes with water upon detection of a fire, reducing the risk of water-related damage due to leaks or malfunctions. This approach is considered best practice for environments housing sensitive electronic equipment.

EPI Data Center Specialist References:

EPI advises using pre-action fire suppression in data centers to reduce risks associated with accidental water release, providing a safer and more controlled fire response that better protects critical infrastructure.

### NEW QUESTION # 19

Smoke sensors need to be tested to ensure that they pick up a potential fire in the data center.

What should you recommend?

- A. Inject smoke at the floor level
- B. Press the self-test button on each sensor in the data center
- **C. Test the sensors according to the vendor specification**
- D. Test the sensors by injecting smoke or simulated smoke directly into the sensor

**Answer: C**

Explanation:

Testing smoke sensors should be conducted according to the vendor specifications to ensure compliance with safety standards and accurate results. Vendors provide specific testing procedures to account for the sensor type, environment, and operational characteristics, ensuring that tests do not damage the equipment or provide false results.

Detailed Explanation:

Smoke sensors can vary by type and sensitivity, so following the vendor's recommended testing procedure ensures the sensors function correctly without risking sensor damage. Injecting smoke or using a self-test might be insufficient or could lead to inaccurate assessments if they do not align with the vendor's testing protocol.

EPI Data Center Specialist References:

EPI recommends adhering to manufacturer specifications for testing critical safety equipment, ensuring that tests reflect real-world conditions without compromising sensor integrity or reliability.

### NEW QUESTION # 20

What is needed to determine the Relative Humidity (RH)?

- A. Dry bulb temperature, wet bulb temperature, and psychrometric chart
- B. Cold surface with dew collection counter
- C. Wet bulb temperature, local atmospheric pressure, and calculator
- D. Dry bulb temperature, airflow, and conversion table

**Answer: A**

Explanation:

Relative Humidity (RH) is defined as the ratio of the actual water vapor content in the air to the maximum possible water vapor content at a given temperature. To calculate RH:

\* Dry bulb temperature (DBT): the ambient air temperature.

\* Wet bulb temperature (WBT): the temperature measured by a thermometer covered with a wet wick, influenced by evaporative cooling.

Using DBT and WBT, the humidity ratio and dew point can be determined with a psychrometric chart or Mollier diagram. From there, RH is calculated as:

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Options A and B are incomplete, while option C is an experimental method, not standard practice. The recognized method is option D.

References: ASHRAE Fundamentals Handbook - Psychrometrics, ISO 7726 (Measurement of Physical Quantities in Thermal Environments).

### NEW QUESTION # 21

The air intake of the mission-critical server at the top of the rack is measuring 25 °C/77 °F.

Is this acceptable?

- A. Yes, this is allowed according to the standards and guidelines
- B. As long as it does not exceed the average server room temperature of 38 °C/100 °F
- C. Depends on the ANSI/TIA-942 Rating the data center needs to comply with
- D. No, the temperature needs to be 20 °C/68 °F

**Answer: A**

Explanation:

An air intake temperature of 25 °C (77 °F) at the top of the rack is acceptable according to data center standards and guidelines, such as those from ASHRAE. This temperature falls within the recommended range for inlet temperatures, which is typically between 18°C (64°F) and 27°C (81°F).

Detailed Explanation:

ASHRAE standards provide guidelines on acceptable temperature ranges for air intake in data centers to balance cooling efficiency and equipment safety. A temperature of 25°C is within the recommended operational range, allowing data centers to optimize energy efficiency while maintaining safe conditions for IT equipment.

EPI Data Center Specialist References:

EPI guidelines align with ASHRAE recommendations for server intake temperatures, confirming that 25°C is within acceptable limits for most mission-critical equipment. This ensures the data center maintains an efficient and reliable environment.

### NEW QUESTION # 22

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

**Answer: D**

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 # 23

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