

# Sample CDCS Questions | Latest EXIN EPI Certified Data Centre Specialist 100% Free Reliable Exam Guide



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## EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>Designing and Implementing a Data Centre:</b> 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>

>> Sample CDCS Questions <<

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## EXIN EPI Certified Data Centre Specialist Sample Questions (Q93-Q98):

### NEW QUESTION # 93

What is the redundancy setup shown in the diagram?

- A. N+N+N

- B.  $2+N+1$
- C.  $2(N+1)$
- D.  $N+2$

**Answer: D**

Explanation:

The diagram shows three UPS modules, each 100 kW, connected in parallel to support a 100 kW IT load.

That means:

- \* One module (100 kW) can support the load (N).
- \* Two additional modules are installed as redundancy.

This equals  $N+2$  redundancy.

- \*  $2+N+1$  and  $2(N+1)$  imply dual active paths not shown.

- \*  $N+N+N$  is not an industry term.

Thus, the correct redundancy level is  $N+2$ .

References: ANSI/TIA-942-B §6.2 (UPS Redundancy Models), IEC 62040-3.

### NEW QUESTION # 94

What mainly affects the cooling capacity of a raised floor tile?

- A. Percentage of the surface opening, airflow direction of the ICT equipment, temperature difference between the air intake and air exhaust of the ICT equipment, construction material of the tile
- B. Percentage of the surface opening, obstruction of the supporting construction, pressure under the raised floor, damper construction
- C. Relative humidity in the computer room, temperature of the cold air, pressure under the raised floor, construction material of the tile
- D. Type of ICT equipment, location of the air conditioner, pressure under the raised floor, allowable temperature in the hot aisle

**Answer: B**

Explanation:

The cooling capacity of a raised floor tile is primarily influenced by the percentage of surface opening, the obstruction caused by the supporting construction, the pressure under the raised floor, and the damper construction. These factors dictate how much airflow can pass through the tile and how effectively cool air is distributed to the equipment in the data center.

Detailed Explanation:

The percentage of surface opening on a floor tile affects how much air can flow through, with larger openings allowing more airflow. Supporting structures beneath the floor can obstruct airflow, reducing cooling efficiency. Pressure under the raised floor impacts the velocity and volume of air that moves through the tile.

Additionally, if dampers are installed, they control the airflow rate, which can be adjusted to meet specific cooling needs for the area.

EPI Data Center Specialist References:

EPI guidance on airflow management under raised floors emphasizes these factors as critical for effective cooling, especially in high-density areas. Ensuring unobstructed and adequate airflow helps maintain consistent cooling across equipment.

### NEW QUESTION # 95

A data center has its own power supply from the public utility and receives chilled water supply from the building owner.

What needs to be taken into consideration when calculating the PUE?

- A. PUE calculations are not possible in shared buildings
- B. You will need to take the value for COP of the chiller plant into consideration
- C. You will need to take a weight factor of 0.4 for district chilled water into consideration
- D. Nothing, as the chiller plant in the building also uses electrical power

**Answer: C**

Explanation:

When calculating Power Usage Effectiveness (PUE) in a data center that uses chilled water from an external source, like from a building owner, a weight factor for district chilled water must be applied. This is because PUE calculations aim to measure the energy efficiency of the data center's own operations, and external utilities like district chilled water aren't directly powered by the data

center. A weight factor of 0.4 is typically used to account for the energy consumed to produce and deliver the chilled water, reflecting the indirect impact on the data center's total energy consumption.

Detailed Explanation:

PUE is calculated as the ratio of the total facility energy to the IT equipment energy. If the cooling is provided by an external chilled water source, it's necessary to adjust the calculations to accurately reflect the energy impact. By incorporating the 0.4 weight factor, data centers can calculate a more accurate PUE, aligning with standard methods and industry best practices.

EPI Data Center Specialist References:

EPI training on PUE highlights the importance of adjusting for external energy sources, such as district cooling, in the calculations. This ensures that PUE values remain accurate and comparable across different data centers, even when external utilities are used.

### NEW QUESTION # 96

A computer room needs to be fitted out with a gas-based fire suppression system. The computer room will be a high-density data center with about 30% of the racks being closed circuit cooling blade-center racks.

Should the supplier of the fire suppression system be informed on the design of the racks?

- A. No, cooling and design of racks have no influence on the fire suppression system design.
- **B. Yes, the design of the racks has an influence on the fire suppression system design.**
- C. Only when the racks might block access to the fire panel.
- D. Only when the rack height obstructs a potential fire suppression release point.

**Answer: B**

Explanation:

The design and configuration of racks, particularly high-density and closed-circuit cooling racks, directly impact the fire suppression system design. Closed-circuit cooling racks, like blade-center racks, can affect airflow and potentially trap heat, influencing how fire suppression agents are distributed within the space.

Therefore, it is essential to inform the fire suppression system supplier about the rack design to ensure effective coverage and proper agent distribution.

Detailed Explanation:

High-density racks can change how smoke and heat travel, which in turn affects fire detection and suppression. Closed racks with built-in cooling can isolate airflow, requiring adjustments in fire suppression design to ensure that suppression agents reach all necessary areas, including within enclosed spaces. The supplier may need to account for these factors to ensure proper protection coverage.

EPI Data Center Specialist References:

The EPI Data Center Specialist training underscores that fire suppression systems must be tailored to the specific environmental characteristics of the data center. The design of racks, particularly high-density configurations, should always be considered to ensure that suppression agents can effectively control a fire, even in contained rack spaces.

### NEW QUESTION # 97

An MCB needs to be installed in the PDU of an air-conditioner unit.

Which breaking curve should you select?

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

**Answer: A**

Explanation:

For an MCB (Miniature Circuit Breaker) in the PDU of an air-conditioning unit, a C-Curve is recommended.

C-Curve breakers are suitable for circuits with moderate inrush currents, such as those experienced in air conditioning units. They provide protection against overloads while accommodating the inrush without nuisance tripping.

Detailed Explanation:

C-Curve breakers trip when currents exceed 5 to 10 times the rated current, making them ideal for devices like air conditioners that experience moderate inrush currents upon startup. This characteristic provides a balance between protection and resilience against startup surges, preventing unnecessary trips while safeguarding the circuit.

EPI Data Center Specialist References:

EPI guidance for data center electrical systems specifies that C-Curve breakers are appropriate for equipment with inrush

characteristics similar to air conditioning units, as they help prevent operational interruptions caused by typical surges during equipment start-up.

### NEW QUESTION # 98

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