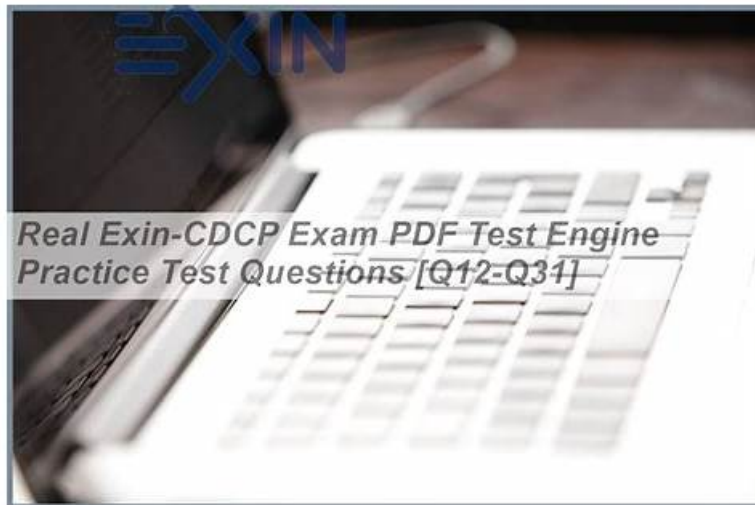


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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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 (Q35-Q40):

NEW QUESTION # 35

Do all residual current devices (RCDs) use the same operating principle?

- A. No, depending on regulations some use thermal-magnetic operation
- **B. No, ELCB measures earth voltage, whereas RCD detects current differences**
- C. Yes, they all detect current differences on live and neutral wire
- D. Yes, they all measure voltage on the earth conductor

Answer: B

Explanation:

Residual current protection has evolved:

* ELCB (Earth Leakage Circuit Breaker): Older type; voltage-operated. It trips when voltage develops between earth and exposed metal.

* RCD/RCCB (Residual Current Device/Circuit Breaker): Current-operated. It detects imbalance between live and neutral conductors (indicating leakage current to earth).

Modern data centers use RCDs/RCCBs exclusively, since ELCBs are obsolete and unreliable if multiple earth connections exist. Thermal-magnetic breakers (D) provide overcurrent protection, not earth leakage.

Thus, not all residual current devices are based on the same principle.

References: IEC 61008, IEC 61009 (RCCB/RCD definitions), IEC 60364 (Electrical Installations - Protective Measures).

NEW QUESTION # 36

What is a significant difference between a halocarbon gas-based fire suppression system and an inert gas-based fire suppression system?

- A. Inert gas harms the environment and halocarbon gas does not.
- **B. Halocarbon gas works on the basis of heat removal and inert gas works on the basis of oxygen reduction.**
- C. Halocarbon gas works on the basis of oxygen reduction and inert gas works on the basis of heat removal.
- D. Inert gas has smaller-sized gas containers than halocarbon gas.

Answer: B

Explanation:

A halocarbon gas-based fire suppression system primarily extinguishes fires through heat absorption. In contrast, an inert gas-based system works by reducing oxygen levels to a point where combustion cannot be sustained. Halocarbon agents, like FM-200, absorb heat from the fire, cooling it down, whereas inert gases, like nitrogen or argon, lower oxygen concentration.

Detailed Explanation:

Halocarbons are effective in quickly cooling flames and are suitable for electronic environments due to their fast action. Inert gases displace oxygen to suppress fires, making them ideal in occupied spaces where human safety can be managed during a fire event due to slower discharge times.

EPI Data Center Specialist References:

EPI training distinguishes between these suppression mechanisms, noting the importance of selecting the correct system based on specific needs like quick response versus oxygen displacement for environments with sensitive equipment.

NEW QUESTION # 37

A computer room with raised floor and hot/cold aisles is designed. What is the minimum required distance between the air-conditioner outlet and the first rack?

- A. 180 cm (6 ft)
- **B. 120 cm (4 ft)**
- C. None
- D. 60 cm (2 ft)

Answer: B

Explanation:

To ensure uniform air distribution, there must be a buffer zone between CRAC/CRAH discharge and the first row of racks. Industry

best practice (ASHRAE & TIA-942) specifies at least 1.2 m (4 ft).

* Less than 1.2 m risks air velocity hotspots and turbulence, disrupting cold aisle containment.

* More than 1.8 m wastes valuable floor space without added benefit.

Thus, 120 cm is the recommended minimum.

References: ANSI/TIA-942-B §6.5.3 (CRAC placement), ASHRAE TC 9.9 Thermal Guidelines.

NEW QUESTION # 38

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

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

Answer: C

Explanation:

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

Charging Current = $800\text{Ah} \times 0.1 = 80\text{A}$

* 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 # 39

A data center requires an audit to find out whether it conforms with ANSI/TIA-942 Rated-3 (concurrently maintainable).

Will the network architecture be part of this audit?

- A. Yes, but only if the network administration does not comply with ANSI/TIA-606.
- B. No, only the type of cabling used will be audited.
- C. Yes, amongst other aspects, the network architecture should be Rated-3 compliant with the requirements of ANSI/TIA-942.
- D. No, as concurrently maintainable only applies to electrical and mechanical (power and cooling).

Answer: C

Explanation:

For a Rated-3 data center, network architecture is indeed a key component of the audit under ANSI/TIA-942. This rating requires concurrent maintainability across all systems, including telecommunications infrastructure. The network architecture must therefore meet specific redundancy and reliability standards to ensure uninterrupted operations during maintenance or failure of any single component.

Detailed Explanation:

Rated-3 requirements extend beyond electrical and mechanical systems to include network architecture. This ensures that telecommunications systems are also designed for concurrent maintainability, thus contributing to overall uptime and resilience.

EPI Data Center Specialist References:

EPI endorses comprehensive assessments for Rated-3 facilities, emphasizing that network systems must meet standards for redundancy and concurrent maintainability, which align with ANSI/TIA-942's holistic approach to data center reliability.

NEW QUESTION # 40

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