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EXIN CDCS Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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.

>> Dumps CDCS Guide <<

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q52-Q57):

NEW QUESTION # 52

The logical overview of the data center looks as pictured below. To what TIA-942 Rating is this design made based on electrical only?

- A. Rating-4
- B. Rating-3
- C. Rating-2
- D. Rating-1

Answer: A

Explanation:

The diagram shows two independent utility feeds, each backed up by generators, connected to two separate distribution paths. Each path supplies its own UPS system in an N+1 configuration, which then feeds PDUs and ICT loads. Mechanical equipment also has dual redundant feeds. This means the electrical design ensures concurrent maintainability (systems can be maintained without downtime) and fault tolerance (a single fault anywhere in the power path will not impact ICT load).

According to ANSI/TIA-942-B, the electrical infrastructure for a Rated-4 data center must have two active distribution paths, each independently capable of supporting the ICT load. It also requires full redundancy (N+1 or greater) on critical components such as UPS and generators. This diagram clearly illustrates that architecture: dual feeds, dual UPS, and fault tolerance.

In contrast, Rating-3 offers concurrent maintainability but does not guarantee full fault tolerance. Rating-2 and Rating-1 are less stringent and would not provide the dual power distribution seen here.

References: ANSI/TIA-942-B §6.2 (Electrical Infrastructure Requirements), Figure 21 (example of dual active distribution).

NEW QUESTION # 53

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

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

Answer: D

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 # 54

What is the main advantage of using an End-of-Row (EoR) design?

- A. A single Top-of-Rack (ToR) switch is more expensive than an EoR switch
- B. There will be fewer switches to manage (corrected typing: original said "more")
- C. You need a separate rack to install all your EoR switches
- D. A ToR switch has only optical interfaces

Answer: B

Explanation:

EoR centralizes access/aggregation switches at the end of each row, reducing the number of access switches compared with ToR (one per rack), which simplifies management and often lowers Ops costs.

* A, D are incorrect generalizations.

References: ANSI/TIA-942-B §8 (Telecommunications infrastructure-HDA/EoR/ToR discussion); Cisco Data Center Access Layer CVD (EoR vs ToR design considerations).

NEW QUESTION # 55

Management requests a 15-minute battery bank at full UPS load. UPS specs:

- * 30 kVA, PF 0.8
- * Battery 384 V (192 cells), end discharge 308 V
- * Inverter PF 0.8, 400 V output

What information is missing to perform the calculation?

- A. UPS efficiency
- B. Load imbalance
- C. Inverter efficiency / output PF
- D. Available battery charging current

Answer: A

Explanation:

Battery sizing requires determining the real power demand of the UPS. With 30 kVA at 0.8 PF, the real load is 24 kW. To calculate required ampere-hours for 15 minutes of runtime, we need:

Where P = load, t = runtime, V = battery voltage, and # = UPS efficiency.

Without UPS efficiency, we cannot know actual DC load on the batteries. A UPS with 90% efficiency will require more battery capacity than one with 95%. None of the other listed parameters (PF, imbalance, charging current) are critical for runtime capacity calculation.

References: IEEE Std 1188 (VRLA Batteries), IEC 62040-3 (UPS performance), ANSI/TIA-942-B §6.2.

NEW QUESTION # 56

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. 30 Amperes
- B. 12 Amperes
- C. 60 Amperes
- D. 80 Amperes

Answer: A

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:

$600 \text{ Ah} \times 0.05 = 30 \text{ Amperes}$

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 # 57

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