

Guaranteed CDCS Questions Answers Makes Passing EXIN EPI Certified Data Centre Specialist More Convenient



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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">• 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	<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.

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q61-Q66):

NEW QUESTION # 61

A computer room with a raised floor has been designed with racks in a hot/cold aisle setup.

What should you recommend for the placement of down-flow air conditioners?

- A. Air conditioners perpendicular to (at the end of the row of) the Cold-Aisle
- B. Air conditioner placement has no influence on cooling effectiveness and efficiency. Hence, they can be placed at any convenient location.
- C. Air conditioners perpendicular to (at the end of the row of) the Hot-Aisle
- D. Air conditioners should always be placed at both sides of each row of racks

Answer: A

Explanation:

In a hot/cold aisle configuration, placing down-flow air conditioners perpendicular to the cold aisle ensures that cool air is directed efficiently into the cold aisles where server intakes are located. This layout allows for optimal cooling performance by aligning the airflow directly with the equipment intakes, minimizing hot spots and enhancing cooling efficiency.

Detailed Explanation:

With a raised floor design, cold air from the air conditioners is supplied into the cold aisle, where server intakes are located. Positioning the air conditioning units perpendicular to the cold aisles ensures that cool air is delivered directly into these aisles, preventing air mixing and optimizing cooling. This setup takes full advantage of the airflow management strategy inherent to the hot/cold aisle configuration.

EPI Data Center Specialist References:

EPI guidelines on cooling emphasize that down-flow air conditioners should be positioned to maximize the effectiveness of cold aisle delivery, which improves cooling efficiency and helps maintain consistent temperatures across server racks.

NEW QUESTION # 62

What is the main disadvantage of using a ToR (Top of Rack) design?

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

Answer: D

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 # 63

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. None
- B. 120 cm(4 ft)
- C. 60 cm(2 ft)
- D. 180 cm(6 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 # 64

What is the advantage of using Multi-fiber Push-On (MPO) connectors?

- A. Allows a single connector with multiple fibers running parallel, enabling easy upgrade to 40-100 Gbit/s
- B. Made of high-quality materials, reusable without risk
- C. Very flexible, can be used for both copper and optical fiber
- D. No advantage, cannot be used with OM4 fiber

Answer: A

Explanation:

MPO connectors are multi-fiber connectors that support 12, 24, or more fibers in a single connector. Their key advantage is enabling parallel optics-where multiple fibers transmit simultaneously. This makes them ideal for 40GBASE-SR4 and 100GBASE-SR10 Ethernet links.

* With OM4 or OM5 fiber, MPO cabling supports short-reach high-speed links in modern data centers.

* Option A is incorrect; MPO works with OM3/OM4/OM5.

* Option C is misleading; all connectors degrade with repeated use.

* Option D is false because MPO is optical-only.

The real advantage is parallel multi-fiber transmission in one connector, simplifying cabling for high-speed networking.

References: ANSI/TIA-568.3-D (Optical Fiber Cabling), IEEE 802.3ba (40/100GbE), ANSI/TIA-942-B §8.

NEW QUESTION # 65

What is the main reason to install Earth Leakage protection?

- A. Protection of human lives
- B. Protection against lightning strikes
- C. Protection of ICT equipment against high-frequency noise currents
- D. Improvement of the data center grounding/earthing system

Answer: A

Explanation:

Earth Leakage Protection is primarily installed to protect human lives by detecting and disconnecting power when a fault current flows to the ground. This type of protection is essential to avoid electrical shock hazards that could occur when insulation fails, or equipment is improperly grounded.

Detailed Explanation:

Earth leakage currents can occur due to insulation faults or accidental contact with live parts. Earth Leakage Protection systems, such as Residual Current Devices (RCDs), quickly detect these faults and disconnect the circuit to prevent harm to personnel. This is especially crucial in environments like data centers where high-powered equipment is continuously running and any electrical fault can

pose significant safety risks.

EPI Data Center Specialist References:

EPI emphasizes that human safety is paramount in data center operations. Proper grounding and leakage protection are fundamental safety measures, and EPI guidelines align with this focus, underscoring the importance of protecting personnel from electrical hazards through appropriate safety systems.

NEW QUESTION # 66

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