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EMC D-PE-FN-01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Security: This section of the exam measures the skills of Server Support Engineers and emphasizes the security features embedded in Dell PowerEdge servers. It includes hardware-based protections such as Silicon Root of Trust, TPM 2.0, and Secure Boot. The section also covers iDRAC's role in automated security, data protection using Self-Encrypting Drives (SEDs), and access control measures like Multifactor Authentication (MFA) and Role-Based Access Control (RBAC).
Topic 2	<ul style="list-style-type: none">• Introduction to Servers: This section of the exam measures the skills of Data Center Technicians and covers foundational concepts related to server characteristics and key storage components in Dell PowerEdge servers. It includes identifying server generations, interpreting server nomenclature, and understanding the purpose of hardware elements such as HDDs, SSDs, RAID controllers, BOSS, and M.2 drives. The goal is to ensure a clear grasp of server internals and their role in performance and reliability.

Topic 3	<ul style="list-style-type: none"> • Maintenance: This section of the exam measures the skills of Data Center Technicians and covers practical server maintenance procedures. Topics include handling memory and expansion cards, understanding power distribution, recognizing hardware fault indicators, and applying various firmware update methods. It also touches on thermal management through cooling techniques such as air, liquid, and immersion cooling, along with proper shutdown and reboot practices.
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EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q53-Q58):

NEW QUESTION # 53

A data center operator implements security best practices and must ensure that user access to server management functions is strictly controlled and separate from regular data access paths.

How do out-of-band (OOB) management applications enhance security by design compared to in-band methods?

- A. OOB applications integrate user access within the operating system security model and use ABAC to control access to the resources
- B. OOB applications centralize all user access through a single OS login based on the capabilities that the operating system provides
- C. OOB applications rely on m-band operating system utilities for access restriction and use their inherent capabilities
- **D. OOB applications seek separation of data I/O from management I/O and restrict user access to the management application by way of the operating system**

Answer: D

NEW QUESTION # 54

An administrator must identify the hot-swappable PSUs for a system upgrade. What indicates the PSUs can be replaced safely without disrupting the functionality of the servers?

- A. Green LED lights
- **B. Orange tab embedded in the PSUs**
- C. Wattage label
- D. Blue tab embedded in the PSUs

Answer: B

NEW QUESTION # 55

A data center is designed with cold aisle containment. How are cold aisles used in this design to manage server temperatures?

- A. Recirculate hot air within the cold aisle to preheat intake air.
- B. Direct hot exhaust air from the servers into the cold aisle.
- C. Isolate the cold aisle to prevent any airflow from the hot aisle.
- **D. Pump cold air into the cold aisle for server intake.**

Answer: D

Explanation:

In cold aisle containment designs, cold aisles are used to supply chilled air directly to server intakes by pumping cold air from air handlers or CRAC units into the enclosed cold aisle, ensuring efficient cooling and preventing mixing with hot exhaust air. This isolation improves energy efficiency and maintains optimal server temperatures. Directing hot air into the cold aisle or recirculating it would increase temperatures, defeating the purpose. Containment focuses on separating airflows for better thermal management in PowerEdge server deployments. Exact extract: "Explain the cooling and thermal considerations in PowerEdge Servers (Direct Liquid Cooling, Immersion Cooling, Air Cooling)... Describe maintenance functions, shutdowns, reboots of a PowerEdge Server." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Maintenance (18%).

NEW QUESTION # 56

An IT manager is looking at the Dell PowerEdge R740xd model. What does the "xd" in the model's name indicate?

- A. Indicates tower form factor
- B. Indicates modular design
- C. Indicates extra drives
- D. Indicates high density

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extracts: The "xd" in the PowerEdge R740xd model name indicates extra drives, signifying a configuration with enhanced storage capacity, supporting more drives or larger storage options for data-intensive workloads. This distinguishes it from standard R740 models. Modular design and high density apply to other models, and "xd" does not denote a tower form factor (R-series are racks). This naming convention aids in selecting appropriate PowerEdge models. Exact extract:

"Explain how different PowerEdge server models (e.g., rack servers, tower servers, blade servers) are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 57

Which firmware interface is known for providing faster boot times?

- A. CMOS
- B. MBR
- C. GPT
- D. BIOS
- E. UEFI

Answer: E

Explanation:

Unified Extensible Firmware Interface (UEFI) is known for faster boot times in PowerEdge servers compared to traditional BIOS, as it supports parallel initialization and modern hardware features, reducing startup delays. GPT and MBR are partitioning schemes, not firmware interfaces, and CMOS stores settings, not boot logic. UEFI is the standard for modern server performance. Exact extract: "Describe the security features in PowerEdge servers... Explain the role of TPM and Secure Boot." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%).

NEW QUESTION # 58

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