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

Topic	Details
Topic 1	• Server Management: This section of the exam measures the skills of Server Support Engineers and addresses server management concepts, including in-band and out-of-band management. It compares Dell management utilities, explains BIOS vs. UEFI, and introduces at-the-box management. The section also explores iDRAC versions and the features of the Dell OpenManage System Administrator Suite (OMSA) to ensure engineers can monitor and manage PowerEdge servers effectively.
Topic 2	• Server Architecture and Roles: This section of the exam measures the skills of Server Support Engineers and focuses on understanding how various PowerEdge server types—like rack, tower, and blade servers —fit specific deployment needs. It covers interpreting server data flow, exploring storage topologies like DAS, NAS, and SAN, and understanding virtualization using hypervisors. The section also outlines how to position PowerEdge servers in edge, cloud, or core environments for use cases such as HPC, file sharing, or AI workloads.
Topic 3	• 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.
Topic 4	• 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.

EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q83-Q88):

NEW QUESTION # 83

An administrator must configure the iDRAC IP address on a Dell PowerEdge XE9680 server using the LCD control panel What is the first step that the administrator should take?

- A. Access the BIOS settings during the server reboot
- B. Press the Quick Sync button on the front of the server
- C. Connect a monitor and keyboard to the server
- D. Navigate to the network settings on the LCD control panel

Answer: D

NEW QUESTION # 84

A technician is replacing a faulty PSU in a PowerEdge server with redundant power supplies They intend to remove one PSU to perform the swap What is the recommended procedure lo maintain server uptime and power redundancy during this PSU replacement1?

- A. Remove both PSUs simultaneously to expedite the process
- B. Pull one PSU at a time to retain power redundancy
- C. Shut down the server completely before removing any PSU
- D. Disconnect the server from the mam power source before PSU removal

Answer: B

NEW QUESTION # 85

In ECC memory, how many extra bits are used for every 64-bit value to facilitate single-bit error correction, based on Hamming code?

- A. ECC uses 4 extra bits for every 64-bit value for correction.
- B. ECC employs 8 additional bits for every 64-bit value.
- C. ECC uses 16 parity bits for every 64-bit data value.
- D. ECC adds 32 error correction bits per 64-bit data segment.

Answer: B

Explanation:
Error Correcting Code (ECC) memory uses 8 additional bits for every 64-bit data value to detect and correct single-bit errors using Hamming code, resulting in 72-bit modules. This enhances data integrity in servers by repairing errors without interruption. Fewer bits (4) would only detect, not correct; more (16 or 32) are unnecessary for standard single-bit correction. ECC is beneficial in PowerEdge servers for reliable operations.
Exact extract: "Why is Error Correcting Code (ECC) memory beneficial in Dell EMC PowerEdge servers? D.
Can repair errors without interrupting other server operations... Describe the Memory and Expansion cards." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Introduction to Servers (28%) and Maintenance (18%).

NEW QUESTION # 86
Which firmware interface is known for providing faster boot times?

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

Answer: B

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 # 87
A company wants to run multiple operating systems on the same server without the overhead of a host operating system. Which type of solution should they use?

- A. Type 2 hypervisor
- B. Cloud-based visualization
- C. Type 1 hypervisor
- D. Containerization

Answer: C

Explanation:
A Type 1 hypervisor, or bare-metal hypervisor, runs directly on PowerEdge server hardware, enabling multiple operating systems without the overhead of a host OS. This provides better performance and efficiency for virtualization compared to Type 2 hypervisors, which rely on a host OS. Containerization is for applications, not full OS, and cloud-based visualization is unrelated. Exact extract: "Explain Hypervisors and virtual machines... Explain how different PowerEdge server models are better suited for specific roles." Reference: Dell PowerEdge Foundations v2 Exam Description (D-PE-FN-01), Topic: Server Architecture and Roles (22%).

NEW QUESTION # 88
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