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

Topic	Details
Topic 1	<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.
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"> • 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 4	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • Server Networking and Connectivity: This section of the exam measures the skills of Data Center Technicians and focuses on the fundamentals of networking services as they relate to PowerEdge servers. It includes identifying network cables and connections, and comparing different onboard network options. This knowledge is essential for establishing and maintaining server connectivity within diverse infrastructure environments.

EMC Dell PowerEdge Foundations v2 Exam Sample Questions (Q68-Q73):

NEW QUESTION # 68

How much raw capacity will be available when deploying a new server that contains six, 3 TB hard drives in a RAID 10 configuration?

- A. 12TB
- **B. 9 TB**
- C. 18 TB
- D. 15 TB

Answer: B

NEW QUESTION # 69

A server's hard drives are connected to a single controller using a component that provides power and data connections. A failure of this component could disconnect multiple drives simultaneously. Which high-speed communication board connects multiple hard drives to a single controller and whose failure can lead to drive disconnections?

- A. PCIe Riser Card
- **B. Motherboard**
- C. Backplane
- D. RAID Controller

Answer: B

NEW QUESTION # 70

A film studio needs high-performance servers for video rendering tasks that demand significant computational power and efficiency per rack space. Which type of specialized module server would be most appropriate for maximizing rendering capabilities within a data center?

- A. Mainstream optimized modules balancing performance and cost for general use
- B. Edge-optimized modules for remote deployment and minimum footprint
- C. Specialized modules with high compute performance and core density per rack
- **D. GPU-optimized modules for enhanced graphics processing and VDI**

Answer: D

Explanation:

GPU-optimized modules in PowerEdge servers are designed for workloads like video rendering, which require significant computational power and graphical processing capabilities. These modules leverage GPUs to accelerate parallel tasks, maximizing rendering efficiency within limited rack space, ideal for a film studio's data center. Edge-optimized modules prioritize minimal footprint for remote deployment, mainstream modules balance general use, and high compute modules focus on core density, not graphics. GPU optimization directly supports rendering tasks. Exact extract: "Describe and position PowerEdge server solutions for File Sharing, High-Performance Computing (HPC), and Generative AI workloads... 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 # 71

What is the objective of the Patch Management process?

- A. Correctly install and configure Dell EMC Open Manage Essentials
- B. Confirm that industry cable management techniques are followed
- C. Upgrade server hardware to the latest PCB revisions
- **D. Ensure that all software within a company is up-to-date**

Answer: D

NEW QUESTION # 72

What is the minimum number of hard disks required in a RAID 10 configuration?

- A. 0
- B. 1
- **C. 2**
- D. 3

Answer: C

NEW QUESTION # 73

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