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Supermicro
SDLCSA
Supermicro Direct Liquid Cooling Service Associate (SDLCSA) Exam

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Question: 1

The PCIe tray requires two (2) people to lift and remove from the system.

A. True
B. False

Answer: A

Explanation:
In Supermicro's high-end systems like the SYS-421GE-TNHR2-LCC, the PCIe tray, often loaded with multiple GPUs (e.g., 8 NVIDIA HGX GPUs in DLC setups), is heavy and complex. Supermicro's safety guidelines (e.g., SYS-420GP-TNAR Manual) recommend two people for removing such trays due to weight (over 50 lbs with GPUs) and the need to avoid damaging liquid cooling lines or connectors. In DLC systems, the tray integrates with coolant manifolds, adding to its bulk. Thus, True (A) aligns with Supermicro's expertise in ensuring safe handling of DLC components. References: Supermicro safety instructions, DLC rack-scale system specs.

Question: 2

Where is the air shroud located on the PCIe tray?

A. On the bottom of the PCIe tray
B. On the top / right side of the PCIe tray
C. On the top / center of the PCIe tray
D. On the top / left side of the PCIe tray

Answer: C

Explanation:
The air shroud on the PCIe tray in Supermicro systems like the SYS-421GE-TNHR2-LCC is positioned to optimize airflow or assist liquid cooling efficiency in hybrid setups. Per Supermicro's design (e.g., SYS-420GP-TNAR), the shroud is located on the top/center of the PCIe tray, covering the cards to direct cooling effectively across components. This central placement ensures even distribution, critical in DLC systems where air may still cool non-liquid-cooled parts. Options B and D (right/left) are less practical for uniform coverage, and A (bottom) contradicts standard shroud placement above components. Supermicro's DLC expertise integrates air shrouds strategically, making C the verified location.

Question: 3

How many screws need to be removed from the internal fan to release it from the fan housing?

A. 6
B. 4
C. The fan has no screws that need to be removed
D. 2

Answer: B

Explanation:
Internal fans in Supermicro systems, including the SYS-421GE-TNHR2-LCC, are typically secured to their housing with 4 screws, a standard design for stability and ease of replacement (e.g., SYS-420 series manuals). This allows secure mounting while facilitating serviceability, key in DLC systems where fans support hybrid cooling. 6 screws (A) is excessive, 2 (D) insufficient for stability, and C (no screws) contradicts standard fan assembly. Supermicro's DLC expertise ensures practical fan maintenance, making B the verified number.

Question: 4

What design feature helps to align the air shroud back into the motherboard tray?

A. There are 3 tabs on front of the air shroud that should align with 3 slots on top of the fan board
B. There are 4 tabs on front of the air shroud that should align with 4 slots on top of the fan board
C. There are 2 tabs on front of the air shroud that should align with 2 slots on top of the fan board
D. There are 2 tabs on the sides of the air shroud that should align with 2 slots on top of the PCIe board

Answer: A

Explanation:
In Supermicro systems, the air shroud aligns with the motherboard tray via tabs and slots. The correct feature is 3 tabs on the front of the air shroud aligning with 3 slots on top of the fan board , a common design (e.g., SYS-420GP-TNAR) for precise placement over fans and CPUs. B (4 tabs) and C (2 tabs) deviate from standard counts, while D (PCIe board) misplaces the alignment. Supermicro's DLC hybrid cooling ensures shroud accuracy, making A correct. References: Supermicro air shroud installation guides, DLC system cooling alignment.

Question: 5

The power supply units (PSUs) in the SYS-421GE-TNHR2-LCC system are at the back of the chassis, and next to a dummy PSU tray.

A. True
B. False

Answer: A

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Explanation:
In Supermicro's high-end servers like the SYS-421GE-TNHR2-LCC, PSUs are typically located at the back of the chassis for accessibility and cooling efficiency, a design consistent with DLC rack-scale solutions (e.g., SYS-420GP-TNAR). The mention of a "dummy PSU tray" suggests a placeholder or empty slot, common in modular designs to maintain airflow or allow future expansion. This layout is standard in Supermicro's DLC systems, where PSUs power both compute and cooling components (e.g., pumps, CDUs). No contradicting evidence exists, and True (A) aligns with Supermicro's chassis architecture, making it the correct answer.

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