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## Supermicro MI300X GPU Service Specialist (SMI300XS) Exam Sample Questions (Q37-Q42):

### NEW QUESTION # 37

To remove the midplane, use both hands to lift the midplane bracket straight up and out of the chassis. True or False?

- A. True
- B. False

**Answer: A**

Explanation:

Understanding the Midplane in Supermicro MI300X Systems

The midplane in the Supermicro MI300X GPU system acts as a central connection hub that links various system components, such as:

- \* NVMe storage backplanes
- \* PCIe interconnects
- \* Power distribution pathways
- \* Motherboard to GPU communication lanes

Because of its delicate nature and multiple connectors, it must be removed carefully to avoid damaging fragile electrical contacts.

Correct Midplane Removal Process

To safely remove the midplane, follow these Supermicro-recommended steps:

- \* Ensure all power is fully disconnected
- \* Shut down the system properly.
- \* Remove all power cables and disconnect all PSUs.
- \* Ground yourself using an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive components.
- \* Detach all necessary trays and cables
- \* Disengage the PCIe tray, motherboard tray, and GPU tray to ensure clear access.
- \* Disconnect all MCIO cables, power cables, and ribbon cables to prevent accidental pulling or tearing.
- \* Use both hands for removal
- \* Place both hands firmly on the midplane bracket.
- \* Lift the midplane bracket straight up to ensure a smooth removal process.
- \* Avoid angling or twisting the midplane as this can damage its connector pins.
- \* Ensure no resistance is felt
- \* If the midplane does not lift easily, double-check for any remaining screws or connected cables before applying force.

Why Using Both Hands is Crucial?

- \* Prevents bending or flexing
- \* The midplane is a large PCB with multiple connection points. Using both hands ensures even lifting pressure, preventing PCB bending.
- \* Avoids strain on connectors
- \* If removed at an angle, it can stress delicate connectors, leading to permanent damage.
- \* Ensures a firm grip
- \* Some components inside the system can be heavy. Using both hands ensures stability and reduces risk of dropping.

Why Other Answers Are Incorrect?

- \* If False were correct, it would suggest improper handling techniques that can damage the system
- \* Supermicro documentation clearly states that the midplane must be removed using both hands and in an upright motion.

Official Documentation Reference:

- \* Supermicro AS-8125GS-TNMR2 Disassembly Guide instructs technicians to use both hands and lift straight up to prevent damage.

### NEW QUESTION # 38

After removing the screws from the midplane bracket, what cables must be removed? (Choose 2 answers.)

- A. MCIO cable
- B. SATA cable
- C. Power cable

- D. Flat panel/ribbon cable

**Answer: A,D**

Explanation:

The midplane bracket in Supermicro MI300X GPU systems connects multiple crucial components, including storage, PCIe devices, and power distribution systems.

Why must the MCIO and Flat Panel/Ribbon cables be removed?

- \* MCIO Cable (Option B) #
- \* MCIO (Multi-lane Cable I/O) cables are responsible for high-speed NVMe communication between the motherboard and storage components.
- \* These cables must be disconnected before midplane removal, as forcing them out without removal can cause connector damage.
- \* Flat Panel/Ribbon Cable (Option C) #
- \* The flat panel/ribbon cable is used for system communication, front panel connectivity, or sensor data transmission.
- \* If not removed, it can be torn or pinched, leading to malfunctioning front panel indicators, buttons, or management controllers.

Incorrect Answers Explained:

- \* A (Power cable) # Power cables are usually secured independently and are not directly attached to the midplane bracket. Removing them is not a required step for midplane bracket removal.
- \* D (SATA cable) # SATA cables are for legacy storage systems and do not need to be disconnected unless working on SATA-specific backplanes.

Official Documentation Reference:

- \* Supermicro Service Manual for AS-8125GS-TNMR2 explicitly states that MCIO cables and ribbon cables must be removed before handling the midplane bracket to prevent system damage.

#### NEW QUESTION # 39

Exhibit:



The 2 cables attached to the midplane on the side closest to the PCIe tray that need to be removed are the I2C cable and power cable. True or False?

- A. True
- B. False

**Answer: A**

Explanation:

The midplane in Supermicro MI300X GPU systems is responsible for interconnecting several system components. The two primary cables that must be removed before handling the midplane are:

- \* I2C Cable (Inter-Integrated Circuit Cable)

- \* This cable is used for sensor data, system monitoring, and thermal control.
- \* If not disconnected, it could snap or cause sensor miscommunication between the motherboard and the backplane.
- \* Power Cable
- \* This cable supplies power to the midplane and must be disconnected before removal to avoid electrical damage.
- \* Removing the midplane while power cables are still attached could short-circuit the system.

Why is this step necessary?

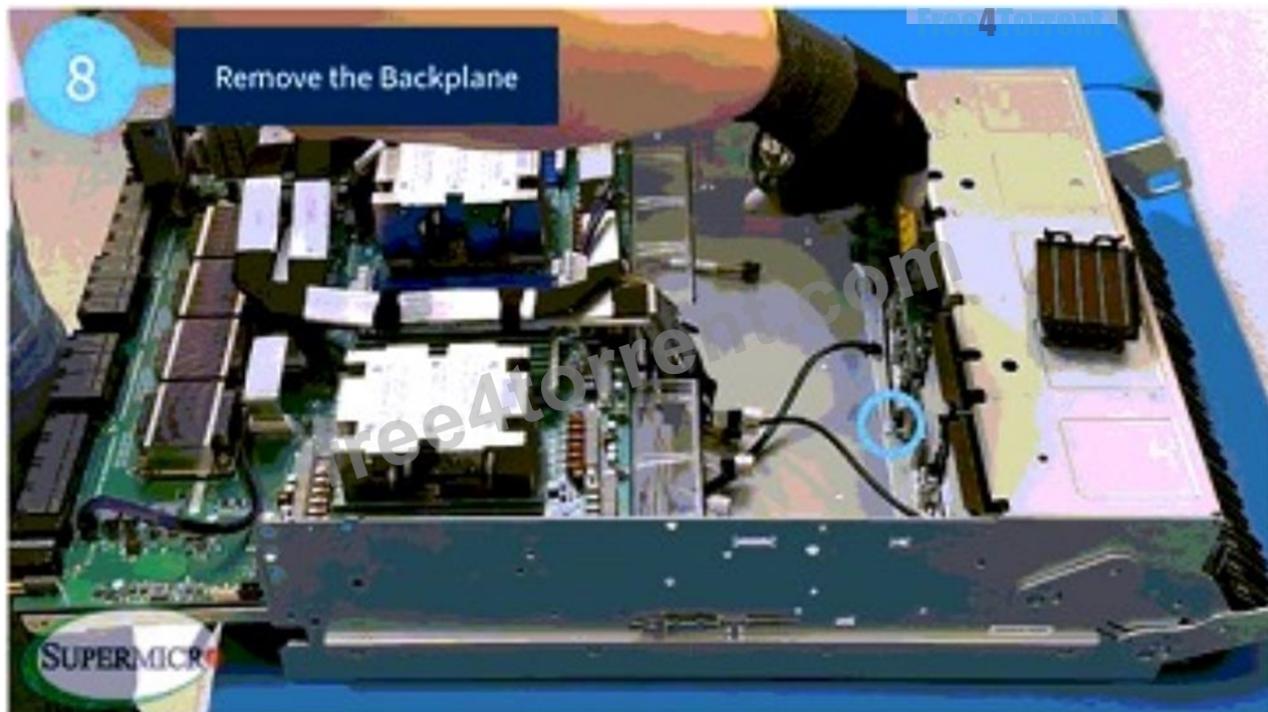
- \* Supermicro's official documentation states that both the I2C and power cables must be disconnected before handling the midplane.
- \* Failure to remove these cables properly can cause permanent damage to connectors and the system board.

Official Documentation Reference:

- \* Supermicro AS-8125GS-TNMR2 Maintenance Manual confirms that disconnecting the I2C and power cables is mandatory before midplane removal.

#### NEW QUESTION # 40

Exhibit:



4 screws secure the backplane to the motherboard tray that you will need to remove, and they are spaced equidistant across the backplane. True or False?

- A. True
- B. False

**Answer: A**

Explanation:

Why Are the Screws Equidistant?

\* The backplane in Supermicro MI300X systems is a large PCB (printed circuit board) that connects NVMe SSDs and PCIe devices to the motherboard.

\* It is secured by four screws placed equidistantly to:

\* Distribute mechanical stress evenly

\* Ensure stability against vibrations

\* Prevent warping or misalignment of connectors

Proper Removal of the Backplane Screws:

#Step 1: Identify and locate the 4 securing screws on the backplane. #Step 2: Loosen them in an across-pattern (diagonal pairs) to prevent stress buildup. #Step 3: Carefully lift the backplane straight up to avoid bending connector pins.

Why This Layout Is Important?

#Equidistant screw spacing ensures even pressure distribution, preventing PCB flexing or cracking. # Improper screw removal (one side first) can cause misalignment or undue stress on connectors.

Why False Is Incorrect?

\* If False were correct, it would imply that screws are placed randomly or unevenly, which is not the case in Supermicro MI300X systems.

Official Documentation Reference:

\* Supermicro AS-8125GS-TNMR2 Installation Manual confirms that the backplane is secured with 4 evenly spaced screws for structural integrity.

#### **NEW QUESTION # 41**

In the motherboard tray, the AOM bracket is partially covered by the support bar. So, you'll need to remove the support bar first before you can remove the AOM bracket. True or False?

- A. True
- B. False

**Answer: A**

Explanation:

Why Must the Support Bar Be Removed First?

\* The support bar is a reinforcement structure inside the chassis that provides mechanical stability to components, including the AOM bracket.

\* Since the AOM bracket is partially covered by the support bar, you must remove the bar first to gain full access.

Step-by-Step Removal Process:

#Step 1: Remove the screws securing the support bar. #Step 2: Carefully lift and remove the support bar without tilting it. #Step 3: Now, unscrew and remove the AOM bracket.

Why is False Incorrect?

\* If False were correct, it would suggest that the AOM bracket can be removed without touching the support bar, which is not possible due to obstruction.

Official Documentation Reference:

\* Supermicro AS-8125GS-TNMR2 Disassembly Manual confirms that the support bar must be removed first before accessing the AOM bracket.

#### **NEW QUESTION # 42**

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