

Moderate

Assistant Engineer (Electrical), Class 2025

Building Department

The highest priority usage than any other usage is

A

Transfer with LOCK (active low) signal

Correct

B

Hold request

C

Processor extension data transfer

D

Data transfer performed by EU (execution unit)

Correct Answer: A

Full Detailed Explanation

Concept & Reasoning: LOCK is used around atomic sequences so shared data cannot be interrupted by another bus master. HOLD requests and coprocessor/data-transfer needs must wait until the locked bus operation completes. This preserves consistency for critical read-modify-write sequences. How to Solve It in the Exam: LOCK means atomic bus ownership. Important Exam Point: Priority here is about bus usage/arbitration, not interrupt priority. Related Revision Path: This question sits in the revision path Microprocessors and Interfacing 8086/80286 Bus Arbitration.

Open live question on website:

<https://sarkariresultout.com/pyq/question/gpsc-ae-electrical-q223-lock-priority/>