You can preview this quiz, but if this were a real attempt, you would be blocked because:

This quiz is not currently available

**Question 1**

Suppose a pipeline is constructed to compute more than one instance of a problem. What is the speed up with 10 instances of the problem and 6 pipe stages compared to executed one instance.

Select one:
- a. 50/14
- b. Infinite
- c. 4
- d. 60/16
- e. None of the other answers

**Question 2**

The radix sort algorithm uses ________.

Select one:
- a. pipeline
- b. mesh topology of processors
- c. The decimal or binary digits of the values.
- d. A histogram of the number of occurrences of the values

**Question 3**

What is the parallel time complexity of Rank Sort with \( n \) numbers and \( n \) processors?

Select one:
- a. \( O(\log n) \)
- b. \( O(n^2) \)
- c. \( O(n) \)
- d. \( O(n \log n) \)

**Question 4**

Which pattern fits the Merge Sort sorting algorithm?

Select one:
- a. Divide and conquer
- b. Workpool
- c. Pipeline
- d. Stencil
- e. Scatter/Gather

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