

Session 5

Total questions: 5

Worksheet time: 3mins

Instructor name: Mr. Erxuan Li

Name Class Date

1. Manually unrolling our loops in Java almost always results in faster code.

a) Trueb) False

2. Considering Amdahl's Law, what limits the maximal possible speedup?

a) The maximum number of processors in a machine.b) The sequential parts of the program.

c) The energy consumption of a machine.d) It states that there is no limit.

3. What applies to Gustafson's law?

a) Speedup is unlimited because we can always increase problem size.b) Speedup is unlimited because problem size is limited.

c) Speedup is limited because problem size is limited.d) Speedup is limited because problem size is unlimited.

4. wait(), notify() and join() are all methods of the Java Object class.

a) Trueb) False

5. How do we notify a specific thread t1?

a) We execute t1.notify().b) We give t1 the highest priority and execute notify().

c) We give t1 the highest priority and execute notifyAll().d) We cannot notify a specific thread.

Answer Keys

1. b) False
2. b) The sequential parts of the program.
3. a) Speedup is unlimited because we can always increase problem size.
4. b) False
5. d) We cannot notify a specific thread.

