UMS
UNIVERSITI MALAYSIA SABAH

KP34403 PENGATURCARAAN SELARI DAN SISTEM TERAGIH [2-2021/2022]

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Grade	**4.00** out of 10.00 (**40%**)

Question 1

Complete

Mark 0.00 out of 1.00

_____ is a type of parallel computing architecture where many functional units perform different operations on the same data.

Select one:
- ○ a. SIMD – Single Instruction Multiple Data
- ◉ b. MISD – Multiple Instruction Single Data
- ○ c. SISD – Single Instruction Single Data
- ○ d. MIMD - Multiple Instruction Multiple Data

Question 2

Complete

Mark 1.00 out of 1.00

_____is when two or more tasks can start, run, and complete in overlapping time periods.

Select one:
- ○ a. Parallel
- ○ b. Parallelism
- ○ c. Pipeline
- ◉ d. Concurrent

Question 3

Complete

Mark 0.00 out of 1.00

_____model is usually applied in cases where each processor has its own memory.

Select one:

- ○ a. Data-parallel
- ◉ b. Shared memory
- ○ c. Distributed memory/message passing
- ○ d. Multithread

Question 4

Complete

Mark 0.00 out of 1.00

_____can be divided into machines that have a shared memory and those that have a distributed memory.

Select one:

- ○ a. SIMD – Single Instruction Multiple Data
- ○ b. MISD – Multiple Instruction Single Data
- ◉ c. SISD – Single Instruction Single Data
- ○ d. MIMD - Multiple Instruction Multiple Data

Question 5

Complete

Mark 0.00 out of 1.00

A parallel program runs more quickly than a sequential program. Why?

Select one:

- ○ a. Parallel program can be executed on any machine.
- ○ b. All parts of the computation can be executed in parallel.
- ○ c. Different parts of the computation can be executed in parallel.
- ◉ d. Sequential program is typically longer than parallel program.

Question 6

Complete

Mark 1.00 out of 1.00

How does the number of transistors per chip increase according to Moores law?

Select one:

- ○ a. Cubicly
- ◉ b. Exponentially
- ○ c. Linearly
- ○ d. Quadratically

Question 7

Complete

Mark 1.00 out of 1.00

The fundamental characteristic of _____ system is the access time to the memory that is constant for each processor and for any area of memory.

Select one:

- ○ a. COMA
- ◉ b. UMA
- ○ c. NoRMA
- ○ d. NUMA

Question 8

Complete

Mark 0.00 out of 1.00

The style of parallelism supported on Intel Core i7 is best described as_____.

Select one:

- ○ a. MISD – Multiple Instruction Single Data
- ○ b. SISD – Single Instruction Single Data
- ○ c. MIMD - Multiple Instruction Multiple Data
- ◉ d. SIMD – Single Instruction Multiple Data

Question 9

Complete

Mark 1.00 out of 1.00

Which of the following is not parallel programming models?

Select one:

- ○ a. Multithread
- ○ b. Distributed Memory/message passing model
- ○ c. Shared memory
- ◉ d. Pipeline

Question 10

Complete

Mark 0.00 out of 1.00

Which of the following is the most appropriate architecture for multiple machines to deal with hardware failures?

Select one:

- ○ a. shared-memory multiprocessor
- ○ b. pipelining
- ○ c. single instruction, multiple data
- ◉ d. distributed memory