Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **1** of **20**

___ is the time needed to position the read/write head over the correct track.

- Transfer time

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **2** of **20**

____ computing enables researchers to easily and transparently access computer facilities without regard for their location.

- Grid

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **3** of **20**

A(n) ____ is like a special-purpose computer whose responsibility is to handle the details of input/output and to compensate for any speed differences between I/O devices and other parts of the computer.

- I/O controller

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **4** of **20**

Which of the following is not a component that makes up the Von Neumann architecture?

- ACU

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **5** of **20**

The best measure of speed for computers that execute scientific programs that do an enormous amount of floating-point arithmetic is ____.

- GFLOPS

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **6** of **20**

The branch of computer science that studies computers in terms of their major functional units is ____.

- computer organization

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **7** of **20**

Which of the following phases is not part of the Von Neumann cycle?

- encode

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **8** of **20**

____ computers are built using the principle called superposition, in which a single bit of data, now called a qubit, can be either a 0 or a 1 or both a 0 and a 1 simultaneously.

- Quantum

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **9** of **20**

____ is the functional unit of a computer that stores and retrieves instructions and data.

- Memory

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **10** of **20**

When memory locations are stored in row major order, each memory ____ is connected to two selection lines, the row selection line and the column selection line.

- cell

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **11** of **20**

The ____ code field is a unique unsigned integer code assigned to each machine language operation recognized by the hardware.

- operation

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **12** of **20**

A disk stores information in units called ____, each of which contains an address and a data block with a fixed number of bytes.

- sectors

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **13** of **20**

In ____ parallelism, a computer system has multiple, independent processors each with its own primary memory unit, and every processor is capable of executing its own separate program in its own private memory at its own rate.

- MIMD

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **14** of **20**

The instructions that can be decoded and executed by the control unit of a computer are represented in ____.

- machine language

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **15** of **20**

In parallel processing, each of the processors tackles a small part of the overall problem and then communicates its result to the other processors via the ____ network.

- interconnection

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **16** of **20**

Processors today have clock rates of about ____.

- 3-5 GHz

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **17** of **20**

The real key to using ____ parallel processors is to design solution methods that effectively utilize the large number of available processors.

- massively

Unit 5 Test

Your Score: **90%**
18 Correct out of **20**
Question **18** of **20**

The ____ is the subsystem that performs such mathematical and logical operations as addition, subtraction, and comparison for equality.

- ALU
- Unit 5 Test

- Your Score: **90%**

18 Correct out of **20**

Question **19** of **20**

For the control unit to fetch and execute instructions, it relies on two special registers called the ____.

- PC and IR

Unit 5 Test

Your Score: **90%**

18 Correct out of **20**

Question **20** of **20**

The multiple processors within a ____ cluster do not have to be identical or to belong to a single administrative organization.

- MIMD