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Started on	Sunday, September 11, 2022, 9:24 PM
State	Finished
Completed on	Sunday, September 11, 2022, 9:26 PM
Time taken	1 min 18 secs
Grade	**50.00** out of 50.00 (**100**%)

Question **1**

Correct

1.00 points out of 1.00

In general, interpreted programs have execution times faster than compiled programs.

Select one:
- ○ False ✔
- ○ True

Your answer is correct.

The correct answer is: False

Question **2**

Correct

1.00 points out of 1.00

The physical devices that a computer is made of are referred to as _____.

Select one:
- ○ software
- ○ tools
- ○ the operating system
- ● hardware ✔

Your answer is correct.

The correct answer is: hardware

Question **3**

Correct

1.00 points out of 1.00

Digital machines encode mathematical real numbers using the _____ technique.

Select one:
- ○ Two's complement
- ○ Unicode
- ● IEEE 754 format ✔
- ○ Sign-magnitude

Your answer is correct.

The correct answer is: IEEE 754 format

Question **4**
Correct
1.00 points out of 1.00

In the stored-program concept, the programs' instructions and the data operated on by these instructions are both stored in _____.

Select one:

○ registers

○ ALU

○ secondary storage

○ CPU

◉ main memory ✔

Your answer is correct.

The correct answer is: main memory

Question **5**
Correct
1.00 points out of 1.00

Main memory is also known as RAM.

Select one:

○ False

◉ True ✔

Your answer is correct.

The correct answer is: True

Question **6**
Correct
1.00 points out of 1.00

A bit that is turned off represents the following numerical value: _____.

Select one:

○ OFF

○ -1

◉ 0 ✔

○ ON

○ 1

Your answer is correct.

The correct answer is: 0

Question **7**
Correct
1.00 points out of 1.00

Digital machines encode integral values representing both positive and negative numbers using _____ representation.

Select one:

○ a. IEEE 754 format

○ b. Unicode

○ c. ASCII

◉ d. Two's complement ✔

Your answer is correct.

The correct answer is: Two's complement

Question **8**

Correct

1.00 points out of 1.00

The part of a computer that executes programs is called _____.

Select one:

◉ CPU ✔

○ secondary storage

○ RAM

○ main memory

Your answer is correct.

The correct answer is: CPU

Question **9**

Correct

1.00 points out of 1.00

A type of memory that can hold data for long periods of time - even when no power is supplied to the computer - is called _____.

Select one:

◉ secondary storage ✔

○ cache memory

○ RAM

○ main memory

○ CPU register

Your answer is correct.

The correct answer is: secondary storage

Question **10**

Correct

1.00 points out of 1.00

The C language was designed by _____.

Select one:

◉ Dennis Ritchie ✔

○ Ken Thompson

○ Bjarne Stroustrup

○ Brian Kernighan

Your answer is correct.

The correct answer is: Dennis Ritchie

Question **11**

Correct

1.00 points out of 1.00

Which of the following translates and executes program code line by line rather than translating the entire program in one step?

Select one:

◉ Interpreter ✔

○ Assembler

○ Translator

○ Compiler

Your answer is correct.

The correct answer is: Interpreter

Question **12**

Correct

1.00 points out of 1.00

Writing a program in a language such as Java, C#, or C is known as _____ the program.

Select one:

○ compiling

○ translating

○ interpreting

◉ coding ✔

Your answer is correct.

The correct answer is: coding

Question **13**

Correct

1.00 points out of 1.00

A computer display device is a(n) _____.

Select one:

○ main memory

○ input device

○ secondary storage device

◉ output device ✔

Your answer is correct.

The correct answer is: output device

Question **14**

Correct

1.00 points out of 1.00

Computers can only execute programs that are written in _____.

Select one:

○ mnemonics

○ keywords

◉ machine language ✔

○ commands

○ assembly language

Your answer is correct.

The correct answer is: machine language

Question **15**

Correct

1.00 points out of 1.00

Once a source program is compiled, the programs' source code is not required for executing the code.

Select one:

◉ True ✔

○ False

Your answer is correct.

The correct answer is: True

Question **16**

Correct

1.00 points out of 1.00

Machine instructions are represented using binary numbers.

Select one:

◉ True ✔

○ False

Your answer is correct.

The correct answer is: True

Question **17**

Correct

1.00 points out of 1.00

The CPU determines which operation should be performed during the _____ part of the fetch-decode-execute cycle.

Select one:

○ immediately after the instruction is executed

○ execute

○ fetch

◉ decode ✔

Your answer is correct.

The correct answer is: decode

Question **18**

Correct

1.00 points out of 1.00

The ALU makes use of _____ to store intermediate results.

Select one:

○ transistors

○ heap

◉ registers ✔

○ accumulators

○ stack

Your answer is correct.

The correct answer is: registers

Question **19**

Correct

1.00 points out of 1.00

After translating a source program into an executable program, the compiler will store the executable program in _____.

Select one:

◉ Secondary storage ✔

○ Register

○ Main memory

○ RAM

Your answer is correct.

The correct answer is: Secondary storage

Question **20**

Correct

1.00 points out
of 1.00

Every C and C++ program must have one and only one function named _____.

Select one:

○ **main** ✔

○ **Begin**

○ **begin**

○ **Main**

Your answer is correct.

The correct answer is: **main**

Question **21**

Correct

1.00 points out
of 1.00

Computer programs are also known as _____.

Select one:

○ hardware

○ software ✔

○ information

○ data

Your answer is correct.

The correct answer is: software

Question **22**

Correct

1.00 points out
of 1.00

For interpreted programs, a program's source code is required every time the program is to be executed.

Select one:

○ False

○ True ✔

Your answer is correct.

The correct answer is: True

Question **23**

Correct

1.00 points out
of 1.00

The Control Unit, Arithmetic Logic Unit, registers, and the interconnection between them are collectively referred to as _____.

Select one:

○ memory bus

○ stack

○ heap

○ data path

○ processor ✔

○ information path

Your answer is correct.

The correct answer is: processor

Question **24**

Correct

1.00 points out of 1.00

A component that collects data from users or other devices and sends it to the computer is called _____.

Select one:

○ data path

◉ an input device ✔

○ ALU

○ an output device

Your answer is correct.

The correct answer is: an input device

Question **25**

Correct

1.00 points out of 1.00

The behavior of a computer can be characterized as _____.

Select one:

◉ reading input, processing the input, and writing transformed input as output ✔

○ sequence and looping

○ web browsing, word processing, spreadsheet processing

○ hardware and software

Your answer is correct.

The correct answer is: reading input, processing the input, and writing transformed input as output

Question **26**

Correct

1.00 points out of 1.00

A _____ is a storage location in memory that is represented by name.

Select one:

○ RAM slot

○ constant

◉ variable ✔

○ byte

Your answer is correct.

The correct answer is: variable

Question **27**

Correct

1.00 points out of 1.00

Which of the following languages uses English-like mnemonics such as MOVE, ADD, and SUB?

Select one:

◉ Assembly languages ✔

○ Machine languages

○ C

○ Java

Your answer is correct.

The correct answer is: Assembly languages

Question **28**

Correct

1.00 points out of 1.00

If you peeked inside a machine language executable program, you would see _____.

Select one:

○ object code

○ source code

◉ stream of binary numbers ✔

○ assembly code

Your answer is correct.

The correct answer is: stream of binary numbers

Question **29**

Correct

1.00 points out of 1.00

A _____ is a set of instructions that a computer follows to perform a task.

Select one:

◉ program ✔

○ programming language

○ interpreter

○ compiler

Your answer is correct.

The correct answer is: program

Question **30**

Correct

1.00 points out of 1.00

Floating-point numbers are approximations of real numbers and therefore cause issues related to numerical precision in computing.

Select one:

◉ True ✔

○ False

Your answer is correct.

The correct answer is: True

Question **31**

Correct

1.00 points out of 1.00

This is a volatile type of memory that is used only for temporary storage while a program is running.

Select one:

○ secondary storage

○ registers

○ USB drive

◉ RAM ✔

○ ROM

Your answer is correct.

The correct answer is: RAM

Question 32

Correct

1.00 points out of 1.00

A set of 128 numeric codes that represent the Latin letters a through z and A through Z, digits 0 through 9, various punctuation marks, and other character is _____.

Select one:

○ Unicode

○ ENIAC

○ binary numbers

◉ ASCII ✔

Your answer is correct.

The correct answer is: ASCII

Question 33

Correct

1.00 points out of 1.00

In a _____ numbering system, all numeric values are written as sequences of digits 0s and 1s.

Select one:

◉ binary ✔

○ octal

○ decimal

○ hexadecimal

Your answer is correct.

The correct answer is: binary

Question 34

Correct

1.00 points out of 1.00

In general, Java programs are first compiled to an interpreted form, then interpreted by a virtual machine.

Select one:

◉ True ✔

○ False

Your answer is correct.

The correct answer is: True

Question 35

Correct

1.00 points out of 1.00

_____ converts programs written in assembly language into machine instructions.

Select one:

○ Interpreter

○ Converter

○ Machine compiler

◉ Assembler ✔

Your answer is correct.

The correct answer is: Assembler

Question **36**

Correct

1.00 points out
of 1.00

Python, C, C++, and R are all examples of computer _____.

Select one:

○ hardware

◉ programming languages ✔

○ machine languages

○ operating systems

Your answer is correct.

The correct answer is: programming languages

Question **37**

Correct

1.00 points out
of 1.00

An extensive encoding scheme that can represent the characters of every language in the world is _____.

Select one:

○ Binary numbers

◉ Unicode ✔

○ ASCII

○ ENIAC

Your answer is correct.

The correct answer is: Unicode

Question **38**

Correct

1.00 points out
of 1.00

Which of the following is storage assigned to a program during its execution?

Select one:

○ keyboard

◉ RAM ✔

○ CPU

○ secondary storage

Your answer is correct.

The correct answer is: RAM

Question **39**

Correct

1.00 points out
of 1.00

Which of the following programming languages is an interpreted language?

Select one:

○ C

○ C++

◉ Python ✔

○ COBOL

○ Fortran

Your answer is correct.

The correct answer is: Python

Question **40**

Correct

1.00 points out of 1.00

An English-like programming language such as Java or Python is a _____ programming language.

Select one:

○ high-level ✔

○ low-level

○ machine-level

○ binary-level

Your answer is correct.

The correct answer is: high-level

Question **41**

Correct

1.00 points out of 1.00

A programming language's rules are its _____.

Select one:

○ semantics

○ logic

○ syntax ✔

○ format

○ options

Your answer is correct.

The correct answer is: syntax

Question **42**

Correct

1.00 points out of 1.00

The most important task of a compiler or interpreter is to _____.

Select one:

○ create the rules for a programming language

○ translate English-like statements into a language such as Java

○ translate programming language statements into machine language ✔

○ execute machine language programs to perform useful tasks

Your answer is correct.

The correct answer is: translate programming language statements into machine language

Question **43**

Correct

1.00 points out of 1.00

Assembly language is considered a high-level programming language.

Select one:

○ False ✔

○ True

Your answer is correct.

The correct answer is: False

Question **44**

Correct

1.00 points out of 1.00

English-like mnemonics in an assembly language such as MOVE, ADD, and SUB are called _____.

Select one:

- ○ commands
- ◉ operation codes or opcodes ✔
- ○ operators
- ○ instructions

Your answer is correct.

The correct answer is: operation codes or opcodes

Question **45**

Correct

1.00 points out of 1.00

A _____ program translates a source program written in a high-level language into a separate machine language program.

Select one:

- ○ linker
- ○ translator
- ○ assembler
- ◉ compiler ✔

Your answer is correct.

The correct answer is: compiler

Question **46**

Correct

1.00 points out of 1.00

A byte is made up of eight _____.

Select one:

- ◉ bits ✔
- ○ switches
- ○ nibbles
- ○ transistors

Your answer is correct.

The correct answer is: bits

Question **47**

Correct

1.00 points out of 1.00

The utility operating system program that transfers an executable program from secondary storage into memory for execution is called _____.

Select one:

- ○ Extractor
- ○ Fetcher
- ○ Archiver
- ◉ Loader ✔
- ○ Linker

Your answer is correct.

The correct answer is: Loader

Question **48**

Correct

1.00 points out of 1.00

The Unix operating system was written in _____.

Select one:

○ Java

○ Python

○ C++

◉ C ✔

○ ALGOL

Your answer is correct.

The correct answer is: C

Question **49**

Correct

1.00 points out of 1.00

Which of the following pairs of steps in the programming process is in the correct order?

Select one:

○ put the program into production, understand the problem

○ test the program, translate it into machine language

◉ code the program, translate it into machine language ✔

○ code the program, plan the logic

Your answer is correct.

The correct answer is: code the program, translate it into machine language

Question **50**

Correct

1.00 points out of 1.00

Any data that is stored in a computer's memory must be stored as a binary number.

Select one:

◉ True ✔

○ False

Your answer is correct.

The correct answer is: True

◄ Assignment 2: Introduction to C Programming

Jump to...

Quiz 2: Compilation stages plus concepts of declarations and definitions ►