

Name: _____

Date: _____

Question:	1	2	3	4	5	6	7	Total
Points:	20	0	5	5	5	5	5	45
Score:								

1. (20 points)

- I've downloaded and successfully installed on my computer virtualization software and the phys2200 appliance
- for this class I am using computers in the physics computer lab

Sign and date here: _____

All questions below are multiple choice ones. Only one choice per question is correct. Unless requested otherwise, answer the questions using the information provided in the article *Scalable computer programming languages*.

2. (0 points) What programming language was compared to “an octopus made by nailing extra legs onto a dog”.

- C
- C++
- Smalltalk
- Perl
- Lisp

3. (5 points) In simple words, what is a *scalable programming language*

- A programming language that is suitable for writing fast running programs
- A programming language that is suitable for programming large and small projects
- A programming language that is suitable for programming scalable algorithms
- A programming language to write programs that can be scaled to make them smaller
- A programming language that allows a software company to expand (scale) its services into new geographic areas

4. (5 points) What feature is **not** required in a *scalable programming language*
- Garbage collection
 - Trash removal
 - Exception handling
 - Code readability
 - Run-time error checking
5. (5 points) In simple words, what is a *scalable algorithm*
- An algorithm that can only be implemented using a scalable programming language
 - An algorithm which weight can be determined using a scale
 - An algorithm that works for small scale jobs and is equally effective when jobs grow to being large
 - Another name for a computer program
 - An algorithm that must have a loop when implemented in a programming language
6. (5 points) In simple words, what the term *garbage collection* means
- The term is a synonym with trash removal
 - The term is the name of the procedure to motivate students to learn scalable programming languages by forcing them to get rid of bad programming habits
 - That is a feature that only Python programming language has
 - The term is a name for a programming language feature that prevents the language from being usable for implementing large projects.
 - The term means automatic “freeing” of memory that is no longer being used. The “freeing” is done by computer language’s runtime system.
7. (5 points) What are the tasks that C language preferably **not** be used for
- Developing large software projects
 - “Bare-metal” programming
 - Implementing “better” languages
 - Developing application that has to run as fast as possible
 - Programming numerical algorithms