# Quiz 1 Section-001

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*

\*please write your name on the back, otherwise you consent to have your grade looked at by your classmates

## Language Families

For the following questions, please circle I/F/D to indicate which families the statements correspond to. **(** **I=I**mperative, **F=F**unctional, **D=D**eclarative/Logic). 10 points each. ***Multiple selections are possible.***

1. **I F D**  C/C++/Java are examples of this language family.



1. **I F D** Recursion is the usual mode of repetition.



1. **I F D** Scheme, a dialect of Lisp, is an example of this family.



1. **I F D** This family’s features are strongly influenced by the von Neuman architecture.



1. **I F D** The family is characterized by the use of rules, versus say mathematical structures, which the language will use to answer queries. “Programs” from this family often are knowledge-bases which are queried with very little information about *how*  the query is to be resolved.



1. **I F D** Often uses Write-once variables.



## Von Neumann Architecture (fill in the blanks, 10 points each)

(reminder, the von Neumann architecture describes 5 basic types of “devices”/”units”, plus busses)

1. A keyboard is a(n) \_\_\_\_\_\_\_\_\_\_\_\_ device while data is stored in the \_\_\_\_\_\_\_\_\_\_\_\_ device. The von Neumann \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is that data and instructions go over the same bus. The CPU is generally has two units, an Arithmetic Logic unit and the \_\_\_\_\_\_\_\_\_\_\_ Unit.

