Assignment11

- 1. (Multiple choices) Which of the following statement is/are NOT true? (2 points)
- A. Every program that is executed on a computer must be in the form of the computer's machine language.
- B. Assembler reads each of the instructions in mnemonic form and translates it into the machine-language equivalent.
- C. Assembly language is a low-level programing language in which a mnemonic represents each of the machine-language instructions for general computer.
- D. The java bytecode can be compiled or interpreted by any computer that runs a Java compiler.
- E. APL, C, C#, Pascal, Java, Ada are the third-generation languages.
- 2. (Multiple choices) Which of the following statement is/are false? (2 points)
- A. The imperative paradigm defines the programming process to be the development of a sequence of commands that, when followed, manipulate data to produce result.
- B. Functional programming is one category of the declarative paradigm.
- C. Methods describe how the object, encompassing a collection of procedures, respond to the occurrence of various events.
- D. High-level programming languages allow locations in cache to be referenced by descriptive names rather than by numeric addresses.
- 3. (Multiple choices) Which of the following statement is/are false? (2 points)
- A. Assembler and complier will produce an equivalent program in the appropriate machine language as output.
- B. Interpreter inputs a program in a high-level language and directs the computer to perform the actions specified in each statement.
- C. For the first approach to interpretation, if any errors occur, the process will display an error message and continue the rest of the process.
- D. For the second approach, the transition will be done in two steps, compilation and interpretation, to achieve portability.
- 4. (Multiple choices) Which of the following statement is/are false? (2 points)
- A. The program in its original form is called the source program, and the translated version is called the object program.
- B. The transition process consists of three activities: syntax analysis, parsing, and code generation.
- C. The semantic analyzer checks the tokens created by the syntax analyzer to be sure that they contain no ambiguity.
- D. LISP(LISt Programming) is a functional programming language in which everything is considered as a list.
- 5. Please briefly describe the difference between value passing and reference passing through a swap function example (considering definition parameters, function parameters, function returns, value changes in input parameters, etc). (2 points)