

No.: \_\_\_\_\_

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

**Computer Science  
Homework for Chapter 6**

**Due: 2010/05/12**

7 In the following table, connect the term to each phrase that gives the best description of the term. (40%)

\_\_\_\_ 1. Which of the following is not a control statement?

- A. If-then-else statement
- B. While loop statement
- C. Assignment statement
- D. For loop statement

\_\_\_\_ 2. Which of the following is not associated with object-oriented programming?

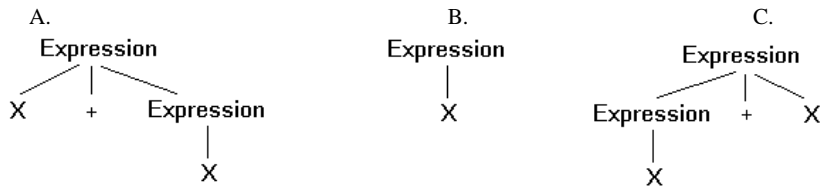
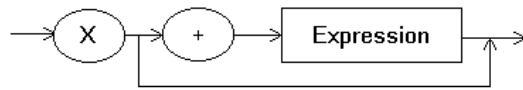
- A. Inheritance
- B. Resolution
- C. Encapsulation
- D. Polymorphism

\_\_\_\_ 3. Which of the following is a means of defining similar yet different classes in an object-oriented program?

- A. Inheritance
- B. Parsing
- C. Coercion
- D. Code optimization

\_\_\_\_ 4. Which of the following is not a parse tree of an expression based on the following grammar?

**Expression:**



\_\_\_\_ 5. Which of the following is an example of a language that is based on the object-oriented paradigm?

- A. LISP
- B. PROLOG
- C. C
- D. C++

\_\_\_\_ 6. Which of the following can Prolog conclude from the following program?

```
parent(jill, sue).
parent(jill, sally).
parent(john, sue).
parent(john, sally).
sibling(X, Y) :- parent(Z, X), parent(Z, Y).
```

- A. parent(jill, john)
- B. sister(sue, sally)
- C. sibling(sue, sally)
- D. sibling(jill, sue)

Term	_____	Descriptive Phrase
parameter	_____	<b>A.</b> A step up from machine language
syntax diagrams	_____	<b>B.</b> A program development methodology
high-level language	_____	<b>C.</b> A methodology that applies well-designed control structures to produce well-organized software
source program	_____	<b>D.</b> The rules defining the syntax of a programming language
compiler	_____	<b>E.</b> A "pictorial" representation of the grammatical structure of a string
assembly language	_____	<b>F.</b> A program that translates other programs into machine language
structured programming	_____	<b>G.</b> A program that executes other programs written in a high-level language without first translating them into machine language
programming paradigm	_____	<b>H.</b> A notational system for representing algorithms in human compatible terms rather than in the details of machinery
data structure	_____	<b>I.</b> Dictates the order in which operations are performed
Parse tree	_____	<b>J.</b> A conceptual organization of information
interpreter	_____	<b>K.</b> A means of passing information to a procedure or function
data type	_____	<b>L.</b> Encompasses both an encoding system and a collection of operations
operator precedence	_____	<b>M.</b> A way of representing a grammar
grammar	_____	<b>N.</b> A program expressed in a high-level language