44-542 Object Oriented Programming

Exam 1 Part 1 Version A KEY (2 pts each, 40 pts total)

Write the letter corresponding to the correct answer **on the answer sheet**. Select only ONE answer for each question.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ translates the source code into an intermediate language.
   1. Java Virtual Machine
   2. Compiler
   3. Constructor
2. A file is generated when a source code is translated to an intermediate language. What is the extension of file name?
   1. .java
   2. .javac
   3. .class
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ translates each intermediate instruction into machine language that is executed by the actual hardware.
   1. Java Virtual Machine
   2. Compiler
   3. Constructor
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_provide a way to store the *state* of an object.
   1. Methods
   2. Attributes
   3. Packages
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_describe the *behavior* of a class.
   1. Methods
   2. Attributes
   3. Packages
6. A(n)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_method returns information about the object.
   1. Separator
   2. Mutator
   3. Accessor
7. The no-arg constructors are frequently used to assign default values to the instance variables. How many parameters does a no-arg constructor have?
   1. Zero parameters
   2. One parameter
   3. Any number of parameters
8. Which keyword is used to create an object of a class?
   1. this
   2. new
   3. final
9. Which keyword is used to declare the constants?
   1. this
   2. new
   3. final
10. Which of the following is the correct precedence order?
    1. Logical, arithmetic, relational
    2. Arithmetic, relational, logical
    3. Arithmetic, logical, relational
11. Which of the following is a utility or helper class, with only static methods?
    1. String
    2. Math
    3. Dog
12. Which of the following classes is used to read input from a file?
    1. PrintWriter
    2. ReadScanner
    3. Scanner
13. capitals is a name of an array of String objects. Which of the following gives the size of the array?
    1. capitals.length
    2. capitals.length()
    3. capitals.size()
14. What is the output of the following code segment?

int number = 4;

System.out.println(number == 3 ? "four" : "three");

* 1. three
  2. four
  3. Four : three

1. All classes in java.lang are immediately available for use in any Java program. (True/False)
2. A class can simultaneously have no-arg constructor, default constructor, and constructor with any number of parameters. (True/False)
3. We can store both the int and double values in one array. (True/False)
4. The enhanced for loop will go through every entry, whether or not the array has been filled. (True/False)
5. An array is an object (True/False)
6. We can create a one dimensional array without specifying the size. (True/False)