Name _____

Student number _____

SE 2AA4 Winter 2007

Quiz 9 Answer Key

Instructor: William M. Farmer

16 March 2007

You have 10 minutes to complete this quiz consisting of 2 pages and 5 questions. You may *not* use your notes and textbooks, nor may you use any calculators or other electronic devices. Circle the *best* answer for the multiple choice questions, and write the answer in the space provided for the other questions. Good luck!

(1) [4 pts.] In the uses graph it is desirable that modules have low fan-out and high fan-in. Is this statement true or false?

    (a) True.

    (b) False.

(2) [4 pts.] In Java, which objects of type `Throwable` are subject to the Catch or Specify Requirement?

    (a) All objects of type `Throwable`.

    (b) All objects of type `Error`.

    (c) All objects of type `Exception`.

    (d) All objects of type `Exception` that are not also of type `RuntimeException`.

(3) [4 pts.] Which kind of modules cannot be easily implemented in Java?

    (a) Definitional extensions.

    (b) Abstract objects.

    (c) Abstract data types.

    (d) Generic modules.

        1/2

(4) [4 pts.] In Java, if a definition of a method m in a file named `Piglet.java` does not have an access control modifier like `private` or `public`, then

    (a) All methods have access to m.

    (b) No methods have access to m except for those defined in `Piglet.java`.

    (c) No methods have access to m except for those defined in a file in the same package that `Piglet.java` is in.

    (d) Only the methods defined in `Piglet` or one of its subclasses have access to m.

(5) [4 pts.] In Engineering, what is the difference between a product specification and a product description.

Answer: A product specification describes the attributes that the product *is required to have*, while a product description describes the attributes that the product *actually has*.