Name _____

Student number _____

CS 2SC3 and SE 2S03 Fall 2008

Quiz 2 Answer Key

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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) [1 pt.] A software product without a requirements specification cannot be considered correct nor can it be considered incorrect. Is this statement true or false?

    (a) ☐ True.

    (b) False.

(2) [1 pt.] A standard Java compiler generates

    (a) Native machine code.

    (b) ☐ Bytecode.

    (c) C code.

    (d) Java source code.

(3) [2 pts.] Give an example of a nonterminating program.

    Answer: An operating system or a user interface.

(4) [2 pts.] What programming paradigms are supported by OCaml?

    Answer:

    (a) Imperative.

    (b) Functional.

    (c) Object oriented.

(5) [2 pts.] Explain in two or three sentences why the Unix root account is dangerous.

    Answer: The root account gives a user complete control over a computer running Unix. In particular, a person with access to the root

account can read, write, and delete any file and can execute any program on the computer. This power enables someone with root access to do unlimited harm to the system either maliciously or accidentally.

(6) [2 pts.] List the five phases of software development that were given in class.

Answer:

   (a) Requirements.

   (b) Design.

   (c) Implementation.

   (d) Verification.

   (e) Delivery and maintenance.