

**Quiz scheme 1a functional programming. Skills:** Interpreting scheme code, Explaining programming paradigms.

Name \_\_\_\_\_ Student Number \_\_\_\_\_

Evaluate the following scheme expressions. If the expressions are incorrect, write **incorrect** in the blank line, otherwise write the corresponding output. (50 pts)

A)

( \* ( - ( 30 3 ) 10 ) 4 ) \_\_\_\_\_

B)

( + ( - 1 3 ) ( \* 5 3 ) ) \_\_\_\_\_

For the following statement number (1,2,3, or 4), match the correct paradigm letter (a. b, c or d)

1) This paradigm is usually used align with structured programming	a) Declarative
2) This paradigm is stateless, it uses recursion and is based on lambda calculus.	b) Imperative
3) Its is based mainly in describing things, such as how a web page should look or which information to show from a database	c) Functional
4) It is used mainly for increasing the speed of software by having many cores work on the same operation at the same time	d) Parallel