1. Explain the role of the *instruction register*, the *program counter* and *buses* in the *machine instruction cycle*.

Program Counter holds address of next instruction to be executed

Bus can access address of appropriate instruction

1. State **two** differences between the CPU in a desktop computer and the microprocessor in a washing machine.

CPU is much faster with more memory and registers than the processor in a washing machine.

1. Define the term *operating system*.

a set of programs that manages the operation of a computer