

7 A computer has an operating system.

(a) The operating system provides several functions.

(i) Tick (✓) **one** box to show which of these is **not** a function of the operating system.

- A

managing files

☐
- B

providing an interface

☐
- C

handling interrupts

☐
- D

loading the bootstrap

☐

[1]

(ii) Identify **one** other function of an operating system.

Describe the purpose of this function.

.....

.....

.....

.....

[2]

(b) Give the name of the set of instructions that are provided to the operating system to allow it to run.

.....

[1]

1 Different types of software can be run on a computer.

(a) State what is meant by software.

.....

..... [1]

(b) Utility software is one type of software that can be run on a computer.

Tick (✓) **one** box to show which software is an example of utility software.

- A

spreadsheet

☐
- B

anti-virus

☐
- C

web browser

☐
- D

database

☐

[1]

(c) Identify the type of software that manages inputs and outputs for the computer.

..... [1]

3 A programmer uses assembly language to create a program for a coffee machine.

(a) Describe what is meant by assembly language.

.....

.....

.....

..... [2]

(b) Identify the translator needed for assembly language.

..... [1]

(c) Tick (✓) **one** box to show which statement is an advantage of using assembly language.

- A

It is close to human language.

☐
- B

It is memory efficient.

☐
- C

It is easy to debug.

☐
- D

It is machine independent.

☐

[1]

7 A computer programmer uses an integrated development environment (IDE) when creating a computer program.

Explain the purpose of the IDE.

[4]

6 A computer needs firmware and system software to operate.

(a) State the purpose of firmware.

[1]

(b) Give **one** example of firmware.

[1]

(c) Give **two** examples of system software.

1

2

[2]

4 Complete the statements about different types of software.

Use the terms from the list.

Some of the terms in the list will **not** be used. You should only use a term once.

- application assembly language bootloader central processing unit (CPU)
- firmware hardware operating output system user

..... software provides the services that the computer requires; an example is utility software.

..... software is run on the operating system.

The system is run on the firmware, which is run on the

[4]

7 A programmer uses a low-level language to write a computer program for a vending machine.

(a) Describe what is meant by a low-level language.

.....

.....

.....

..... [2]

(b) Give **two** reasons why the programmer would choose to write the computer program in a low-level language instead of a high-level language.

1

.....

2

..... [2]