

QUESTION 6.



2 (a) State **two** differences between Static RAM (SRAM) and Dynamic RAM (DRAM).

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.....[2]

(b) (i) Explain why a computer needs an operating system.

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(ii) Give **two** key management tasks carried out by an operating system.

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(c) New program code is to be written in a high-level language. The use of Dynamic Link Library (DLL) files is considered in the design.

Describe what is meant by a DLL file.

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QUESTION 8.



- 6 Kim is using her laptop computer to write a program in a high-level language.
 - (a) Kim needs to make sure the program is secure against unauthorised access. She has already set up a username and password on her laptop.

Identify **two** additional electronic measures that Kim can use to keep the program secure.

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[2]

- (b) Kim will use library routines in her program.

(i) Describe what is meant by a **library routine**.

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(ii) Describe **one** benefit and **one** drawback of using library routines.

Benefit

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Drawback

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[4]

(c) Kim develops her program and makes it ready for use. To do this, she uses first an interpreter and then a compiler.

Explain why Kim needs to use both an interpreter and a compiler.

Interpreter

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Compiler

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[4]

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QUESTION 9.



3 Kimmy has written a program in a high-level language.

(a) Kimmy has used library routines in the program.

(i) Describe **two** advantages of using library routines in the program.

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(ii) Describe what is meant by a **Dynamic Link Library** (DLL).

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(b) Three translators are compilers, interpreters, and assemblers.

(i) State **one** benefit of Kimmy using an **interpreter** during the development of the program.

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(ii) State **three** benefits of Kimmy using a **compiler** when the program is complete.

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QUESTION 10.



2 Biyu is writing a computer program in a high-level language.

(a) Biyu uses a language translator.

(i) State the purpose of a language translator.

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..... [1]

(ii) Biyu uses an interpreter.

State **two** benefits of Biyu using an interpreter instead of a compiler while writing the program.

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(iii) Name a translator other than an interpreter and a compiler.

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(b) Biyu uses library files in the program.

Explain why software is often developed using library files.

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