

1.1 PROCESSORS, INPUT/OUTPUT AND STORAGE · 1.1.3

Input & output devices

Original practice questions · 33 marks · about 40 minutes · spec 1.1.3(a)

Instructions. Answer all questions. The number of marks is shown in brackets []. Quality of written communication is assessed in the extended-response question.

1 Total: 4 marks

This question is about input and output devices.

(a) State **two** input devices. [2]

(b) State **two** output devices. [2]

2 Total: 6 marks

A wearable **fitness tracker** monitors a user's activity and shows the results on a small screen.

(a) Describe one **sensor** the tracker could include and state what it measures. [2]

(b) Name one output device the tracker uses and give a reason for the choice. [2]

(c) Give one reason a touchscreen is described as both an input and an output device. [2]

3

Total: 6 marks

A supermarket uses **self-service checkouts**.

(a) Name one input device used at the checkout and describe how it is used. [2]

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(b) Name one output device used at the checkout and describe how it is used. [2]

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(c) Explain why a barcode scanner is more suitable than typing in product codes by hand. [2]

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4

Total: 5 marks

A user has very limited mobility and cannot use a standard keyboard and mouse.

(a) State one input device suitable for this user. [1]

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(b) Describe how this device allows the user to control the computer. [2]

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(c) Explain one limitation of the device you chose. [2]

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5

Total: 4 marks

This question is about actuators.

(a) Describe what is meant by an *actuator*. [2]

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(b) Give one example of a control system that uses an actuator and state what the actuator does. [2]

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