



# Cambridge International AS & A Level

CANDIDATE  
NAME

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CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**INFORMATION TECHNOLOGY**

**9626/12**

Paper 1 Theory

**May/June 2022**

**1 hour 45 minutes**

You must answer on the question paper.

No additional materials are needed.

## INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- You may use an HB pencil for any diagrams, graphs or rough working.
- Calculators must **not** be used in this paper.

## INFORMATION

- The total mark for this paper is 70.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **12** pages. Any blank pages are indicated.









**6** Sensors are used in monitoring systems to measure physical variables. It is important that sensors are calibrated before use.

**(a)** Describe, in detail, these sensors and give an appropriate use for each. Each use must be different.

Humidity .....

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Sound .....

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[4]

**(b)** Explain the importance of calibration.

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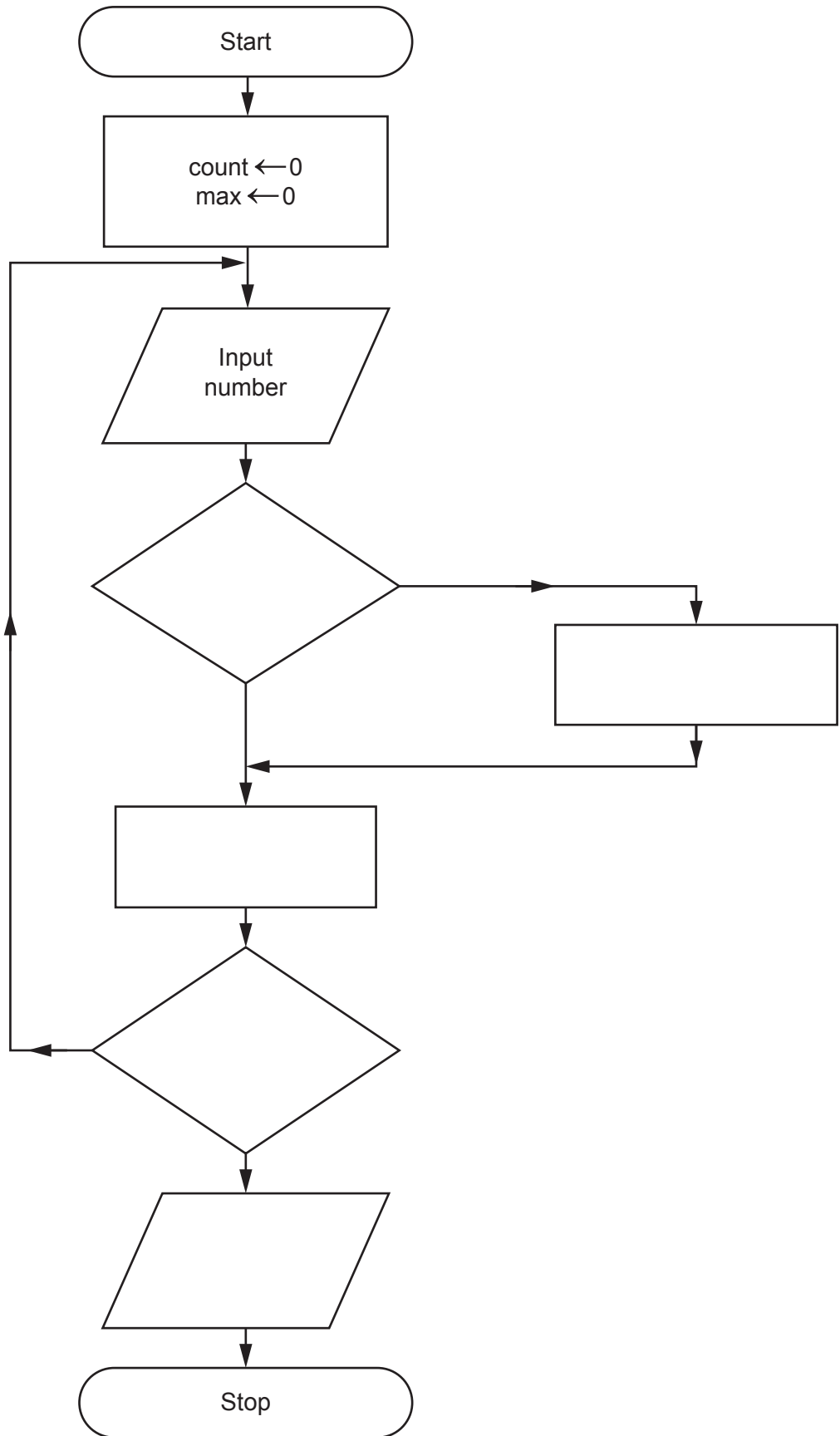
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[2]



7 Josefine has started to draw a flowchart which inputs 10 numbers and outputs the largest value.

Complete the flowchart by filling in the empty boxes and by placing yes and no as appropriate in the diagram.





8 Pharming is a method used by hackers to obtain information from bank customers.

(a) Explain what is meant by pharming.

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(b) Describe **three** methods a customer could use to minimise the risk of becoming a victim of pharming.

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..... [3]



(b) Updating a master file in a payroll system is an example of batch processing.

Discuss the advantages and disadvantages of using batch processing, compared to other types of processing, for a payroll system.

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[8]

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