



## 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**

**9626/03**

Paper 3 Advanced Theory

**For examination from 2020**

SPECIMEN PAPER

**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. You may use an HB pencil for any diagrams, graphs or rough working.
- 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.
- Calculators must **not** be used in this paper.

### INFORMATION

- The total mark for this paper is 90.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **16** pages. Blank pages are indicated.

1 A television station makes its programmes in studios on the ground and transmits them via satellites to receivers in viewers' homes.

(a) Describe how a programme is transmitted from the station's studio to a viewer's satellite receiver.

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..... [4]

(b) Explain **two** advantages to the viewer of using satellites to receive television programmes.

1 .....

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2 .....

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..... [2]

(c) Explain **two** disadvantages to the viewer of using satellites to receive television programmes.

1 .....

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2 .....

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..... [2]















5 In computer programming, explain what is meant by the following terms.

(a) variable

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..... [2]

(b) iteration

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.....  
..... [2]

(c) loop

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.....  
..... [2]



7 RockIT is an international company. The senior managers are based on the same site and use face-to-face meetings to communicate with each other. The senior managers use video-conferencing to communicate with the company's other offices around the world.

(a) Describe the features of a video-conference.

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..... [4]



8 Shafiq has just logged on to a secure website.

(a) Describe how he knows that the website is secure.

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..... [2]

(b) Describe the steps that the web browser will go through to ensure that Shafiq has logged on to a secure website.

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..... [4]



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