Cambridge International AS & A Level

CANDIDATE NAME	

CENTRE NUMBER					CANDIDATE NUMBER			

INFORMATION TECHNOLOGY **9626/31**

Paper 3 Advanced Theory **October/November 2023**

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.

1 Social media consists of websites and applications that allow users to create content, share content and interact with others. They have specific uses in health care.

Describe the uses of social media in health care.

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.... [6]

2 A company holds special events for selected customers on various dates throughout the year. Source documents of customer lists are used to create customised invitations by mail merge.

(a) Explain why source documents are proof read manually to try to ensure that the final versions are accurate and error-free.

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(b) Explain how a merge field can be used to prompt for and insert the date of the special event in the invitations when they are produced.

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3 Vector images consist of shapes which can be edited into different shapes to change the appearance of the image.

Describe the techniques that can be applied to the shapes in a vector image to change its appearance.

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4 Explain how the use of technology enhanced learning methods can affect the motivation of students.

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5 Peer-to-peer networking can be used by companies to connect computing devices.

Discuss the advantages and disadvantages of peer-to-peer networking by companies.

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6 Technical documentation is created during the development of a software application.

(a) Describe the purpose of technical documentation.

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(b) Describe the information that should be included in technical documentation.

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(c) Describe **two** other types of documentation that should be created during the development of a software application.

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7 (a) Describe each of the following terms when referring to JavaScript statements.

(i) operand

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(ii) operator precedence

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(iii) assignment operator

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(iv) literals

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(b) JavaScript has its own group of reserved keywords which cannot be used as names for variables, labels or functions.

Describe **one** other group of reserved words that should **not** be used when writing JavaScript code for use on web pages.

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8 **(a)** Describe what is meant by identity theft.

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(b) Describe the impact of identity theft on individuals.

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9 A new head office is to be designed and built for a company.

Evaluate the use of project management software for supporting this project.

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10 Discuss the benefits and drawbacks of the use of data mining by businesses.

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