



Cambridge International AS & A Level

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
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INFORMATION TECHNOLOGY

9626/12

Paper 1 Theory

May/June 2024

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 A building company has a relational database. The database has two tables: CUSTOMERS and QUOTATIONS.

(a) The QUOTATIONS table has a foreign key.

Describe what is meant by the term foreign key.

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..... [2]

(b) (i) Define the term referential integrity.

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..... [1]

(ii) Explain why referential integrity is important.

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..... [3]

5 There are various methods of verification.

(a) Describe why checksum verification is used.

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..... [2]

(b) Describe a method of calculating a checksum.

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..... [3]

6 Describe these types of malware.

(a) Malicious bots

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..... [4]

(b) Rootkit
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..... [4]

(c) Virus
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..... [4]

8 Sound editing software has a number of features that can be used to edit audio files.

(a) State **two** reasons why an audio clip may need to be trimmed.

Reason 1

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Reason 2

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[2]

(b) State **one** reason why separate audio clips may need to be spliced together.

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[1]

(c) Describe the term equalisation when applied to audio clips.

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[3]

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