



Cambridge International AS & A Level

CANDIDATE
NAME

CENTRE
NUMBER

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INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

February/March 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.

1 Contrast the characteristics of local area networks (LANs) and wide area networks (WANs).

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..... [6]

2 Two impacts on individuals of the use of social networking are ideological polarisation and stereotyping.

(a) Ideological polarisation is the separation of political attitudes into extremes.

Describe ways in which the use of social networking may lead to the ideological polarisation of individuals.

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..... [2]

- (b) Stereotyping is having a set idea of what a person or group of people is like even though that idea may be wrong.

Describe ways in which the use of social networking may lead to the stereotyping of individuals.

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- (c) Many businesses now use social networking for marketing their products.

Justify the use of social networking by businesses for marketing products.

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6 Microwave transmission is used to send data between devices at different locations.

(a) Explain how microwaves are used to transmit data between devices.

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(b) Describe **four** ways that microwave transmission is used in communication systems.

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