



**INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY
STANDARD LEVEL
PAPER 1**

Thursday 11 November 2004(**afternoon**)

1 hour

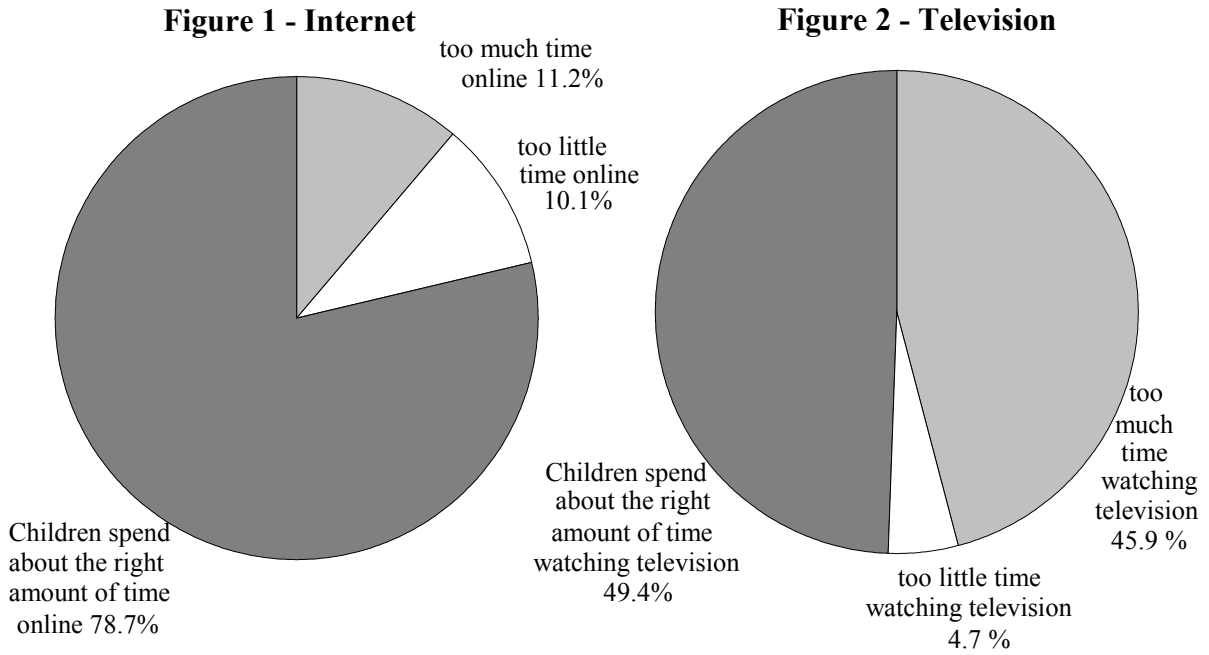
Candidate code

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INSTRUCTIONS TO CANDIDATES

- Write your school code and **candidate** code in the boxes above.
- Do not open this examination paper until instructed to do so.
- Answer all the questions in the spaces provided.

1. A UCLA survey shows the opinions of parents on their children’s use of both the Internet and television (see Figures 1 and 2)



[Source: <http://www.ccp.ucla.edu/UCLA-Internet-Report-2000.pdf>]

- (a) Explain **one** reason why parents are more concerned about time spent watching television than time spent on the Internet. [2 marks]

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(This question continues on the following page)

(Question 1 continued)

- (b) This survey shows that parents are satisfied with their children using the Internet. However, other surveys have shown that parents are worried about some aspects of the Internet.

Describe **two** concerns parents may have about their children using the Internet.

[4 marks]

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- (c) Describe **one** action that parents can take to reduce their concerns about the Internet. Evaluate its effectiveness.

[4 marks]

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Total: *[10 marks]*

2. A school has a client-server network. Internet services are not available with this network.

(a) Identify **two** advantages of a client-server network over stand-alone machines. *[2 marks]*

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(b) Describe **two** different methods that could be used to authenticate users on the network. *[4 marks]*

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(c) Explain **two** rules that should be included in the school's policy regarding students' use of the network. *[4 marks]*

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Total: *[10 marks]*

3. A legal firm has installed a relational database. Three related tables store data about clients, employees and appointments.

(a) Outline **two** advantages of a relational database over a flat file system. *[2 marks]*

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(b) Describe **two** situations where the legal firm may be worried about the integrity of the data. *[4 marks]*

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(c) Describe **two** factors the firm should consider when storing personal information in a database. *[4 marks]*

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Total: *[10 marks]*

4. Protection of intellectual property rights for artistic and literary works is important. Advances in digital technology are making this increasingly difficult. Artistic works include both visual arts and music.

(a) Outline **two** ways that the copyright of a digital version of an artistic or literary work can be violated. *[2 marks]*

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(b) Describe **two** developments in digital technology that have contributed to the increased violation of intellectual property rights. *[4 marks]*

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(c) Describe **one** positive and **one** negative impact on artists or authors resulting from versions of their work being available on the Internet. Do not include any answers from part (a). *[4 marks]*

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Total: [10 marks]