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

Monday 24 May 2004 (afternoon)

1 hour

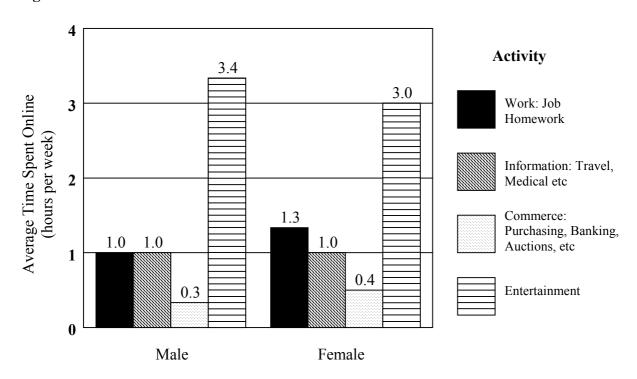
## INSTRUCTIONS TO CANDIDATES

- Do not open this examination paper until instructed to do so.
- Answer all the questions.

224-109 7 pages

1. A UCLA survey recently compared the ways in which teenagers use the Internet. Figure 1 compares the usage of male and female 12-17 year olds:

Figure 1



[Source: http://www.ccp.ucla.edu/UCLA-Internet-Report-200.pdf]

(a)	Which activity shows the largest difference between the ways in which males and females use the Internet? Give an example of this activity.	2 marksj

(This question continues on the following page)

## (Question 1 continued)

(b)	Describe <b>two</b> different services on the Internet that may be used by a high school student to help with homework.	[4 marks]
(c)	Describe <b>one</b> positive and <b>one</b> negative impact related to teenage use of the Internet for entertainment.	[4 marks]
(c)		[4 marks]

Total: [10 marks]

Turn over

Encryption is often used when storing and transmitting data electronically.		
(a)	Identify <b>two</b> situations where encryption may be used to store data electronically.	[2 marks]
(b)	Identify <b>two</b> situations where encryption may be used when transmitting data electronically.	[2 marks]
(c)	Describe <b>three</b> situations where problems may occur because encryption has not been used and explain the problem.	[6 marks]
(c)		[6 marks]
(c)	has not been used and explain the problem.	[6 marks]
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Total: [10 marks]

2.

3.

Total: [10 marks]

Describe <b>two</b> procedures that the network administrator can use to ensure the reliability of the backups.	[4 marks]
Describe <b>one</b> way that a breach of security could occur and discuss its impact.	[4 marks]
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Turn over

of the Chinese population will be online by 2006.

China has become the second largest user of the World Wide Web. It is predicted that 25 %

	China holds tight controls on which Internet services and Web pages can be accessed by the Chinese people.	
(a)	Describe <b>one</b> method that can be used to control the Internet services and Web sites available to the Chinese people.	[2 marks]
(b)	Describe <b>two</b> social impacts which this growth could have on Internet shopping.	[4 marks]
(b)		[4 marks]

(This question continues on the following page)

4.

## (Question 4 continued)

(c	Describe <b>two</b> benefits to China from the increased use of the World Wide Web by the Chinese people. Do not include answers from part (b).	[4 marks]

Total: [10 marks]