

INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY STANDARD LEVEL PAPER 2

Friday 23 May 2003 (morning)

2 hours

INSTRUCTIONS TO CANDIDATES

- Do not open this examination paper until instructed to do so.
- Answer Section A and two questions from Section B.

SECTION A

Answer all parts of the question.

1. There was tremendous growth in the access of online news and information sources in the period from July 2000 to July 2001. The following table indicates the growth of some of the major sites.

Growth of Online News Sources							
	Rate of growth from July 2000 to July 2001	Minutes online per session in July 2001	Minutes online per session in July 2000				
www.WashingtonPost.com	50 %	7.7	6.4				
www.LATimes.com	50 %	_	-				
www.NYTimes.com	66 %	8.2	6.8				
www.CNN.com	83 %	_	_				
www.ABCnews.com	25 %	_	_				
www.MSNBC.com	14 %	6.1	4.8				

The survey also indicated that the majority of the world wide web news audience is people in their 30s.

However, in spite of the growth in the number of online readers, accessing online news sources still lags behind the number of viewers and readers of older media.

Some news websites such as the <u>www.NYTimes.com</u> and the <u>www.WashingtonPost.com</u> have more online readers than for their printed versions. Other online newspapers either require subscription fees or provide the online service free to the readers who subscribe to their paper versions.

[Source: adapted from The New York Times, August 27, 2001]

(a)	State two conclusions which can be drawn from the data included in the table.	[2 marks]
(b)	Identify two reasons why the majority of the web news audience is people	

- in their 30s. [2 marks]
- (c) Explain **two** reasons why online newspapers are not yet profitable even though some charge subscription fees. [4 marks]

(This question continues on the following page)

(Question 1 continued)

(d)	Describe two ad	lvantages of	online	newspapers	over	printed	media	or	
	television.								[4 marks]

 (e) Discuss two ethical practices which newspaper companies should consider when providing online news. A weighing-up of arguments is required in the response. [8 marks]

SECTION B

Answer **two** questions. Candidates should note they are unlikely to achieve high marks for part (c) or part (d) of each question if the answer is not developed and presented in a planned and structured way.

- Some businesses monitor the performance of their employees in the workplace. The data 2. which is collected from this process is often stored in the employees' personal records.
 - Outline two pieces of information which could be collected by monitoring (a) the activities of employees and how each piece of information could be collected. [4 marks]
 - (b) Describe one advantage of employee monitoring for the employee and one advantage for the employer.
 - (c) Discuss three actions that an employer could take in implementing an employee monitoring system without causing the employees to feel that their privacy is invaded. A weighing-up of arguments is required in the response. [12 marks]
- 3. A school provides staff and students with access to its computer network as a way to increase their productivity. The network is used for storing academic and administrative information and it also provides the school community with e-mail and full access to the Internet.
 - Describe two factors that could reduce productivity instead of increasing it (a) [4 marks] when the computer network is introduced in the school.
 - (b) The headteacher is concerned that unauthorized software may be installed on the network. Explain two reasons why software may be regarded as unauthorized.
 - (c) The school is considering producing a code of conduct for the use of networked computers and the Internet. Discuss one appropriate rule which must be included in such a code to prevent computer misuse, and two ethical factors that must be taken into account when the code of conduct is produced.

[4 marks]

[12 marks]

[4 marks]

4.	Scientists are developing a cheap, battery-operated hand-held computer which allows access
	to the world wide web. It reads information aloud to the user.

(a)	Describe one problem caused by a human disability (educational or physical) that this computer may help to overcome.	[2 marks]		
(b)	Describe how this computer may help to overcome the problem you have described in part (a).	[2 marks]		
(c)	Discuss two policies which should be implemented to ensure widespread distribution of these machines to those who will benefit from them.	[4 marks]		
(d)	Discuss three social impacts that could arise from the availability of inexpensive online access to the web across the global society.	[12 marks]		
The film industry depends on the use of IT in various phases of producing films.				
(a)	State two uses of IT in creating films.	[2 marks]		
(b)	Describe three social impacts of using IT in film creation.	[6 marks]		
(c)	Discuss three ethical considerations which emerge from using these new technologies in film making.	[12 marks]		

5.