



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

Candidate session number

Thursday 13 November 2008 (afternoon)

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1 hour

## **INSTRUCTIONS TO CANDIDATES**

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Answer all the questions in the spaces provided.

1. Barbara Smith is a web master who designs and maintains web sites. She is thinking of buying a new personal computer system that she can use to work from home. She is considering purchasing the computer system that appears in the following advertisement.



Principales características	Especificaciones	Más detalles
<ul> <li>Procesador 51</li> </ul>	5 Intel Pentium 4	
<ul> <li>Velocidad de re</li> </ul>	eloj: 2,93 GHz	
Bus frontal de	533 MHz	
<ul> <li>Memoria cache</li> </ul>	é de 1 MB	
RAM DDR de 8	512 MB	
<ul> <li>Disco duro SA</li> </ul>	TA de 160 GB (7200 F	RPM)
<ul> <li>Unidad DVD d</li> </ul>	oble capa, múltiples fo	rmatos, regrabadora
<ul> <li>Gráfica de Inte</li> </ul>	l incorporada	
<ul> <li>Microsoft Wind</li> </ul>	lows XP Home Edition	ı
<ul> <li>Lector 8 en 1 d</li> </ul>	le tarjetas para medio:	S

[© 2008 Dell Inc. All Rights Reserved]

(a)	(i)	Identify the operating system used in this computer system.	[1 mark]
	(ii)	State the amount of secondary storage in this computer system.	[1 mark]
(b)		cribe the purpose of the following in the production and maintenance of the pages:	
	(i)	HTTP	[2 marks]

(This question continues on the following page)



(Question 1(b) continued)

	(ii) FTP.	[2 marks]
(c)	If Barbara Smith were to purchase the computer in the advertisement, explain why the system is unlikely to meet her IT needs within a few years.	[4 marks]

Many organizations use multimedia training packages to keep the skills of their staff up to date.

(a)	Define the term <i>multimedia</i> .	[2 marks
1.1		
(b)	Describe <b>two</b> methods that can be used to reduce the amount of disk space occupied by a multimedia training package.	[4 marks
(b)	=	[4 marks
b)	occupied by a multimedia training package.	[4 marks
b)	occupied by a multimedia training package.	[4 marks
b)	occupied by a multimedia training package.	[4 marks <sub>]</sub>
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(This question continues on the following page)



2.

(Question 2 continued)

training package instead of providing face-to-face training with a human instructor.	[4 marks]

Old-but-New is a car dealership that specializes in selling second hand (used) cars with low mileages.

deci	livertises its cars in local papers and in advertising brochures. The owners of the coded to extend its advertising by displaying its cars on a web site. The images on the tored in JPEG format.	
(a)	Identify <b>two</b> reasons why the images would be stored in JPEG (jpg) format.	[2 marks]
(b)	Describe <b>two</b> advantages of advertising on web sites instead of using an advertising brochure.	[4 marks]

(This question continues on the following page)

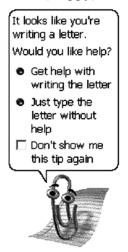


3.

(Question 3 continued)

(c)	The <i>Old-but-New</i> car dealership has decided to produce its own web advertisements rather than use a specialist web design company. Explain why the dealership has taken this decision.	[4 marks]

4. Artificial intelligence is one way in which computer systems are used to solve problems. It is used in many different situations, including on personal computer systems. An example of artificial intelligence is the use of the office assistant (Clippy) in Microsoft Office.



[Microsoft product screen shot reprinted with permission from Microsoft Corporation.]

(a)	Define the term artificial intelligence.	[2 marks]
(b)	Describe how Clippy could tell that the user was writing a letter.	[4 marks]

(This question continues on the following page)



## (Question 4 continued)

(c) The following is a record of a conversation.

Eliza: Hi. I'm Eliza. Tell me your problems!

You: I have a headache

Eliza: You really have a headache?

You: Yes I do.

Eliza: Do you in your dreams, too?

You: Yes there as well. Eliza: Are you sure? You: Absolutely.

Eliza: Perhaps you would like to talk about a problem?

You: I certainly would

Eliza: What does this mean for you, saying " you certainly would "?

You: It means Yes I do Eliza: Does it help you to do?

Explain why it is possible that Eliza in this conversation is not a human being but really a computer running artificial intelligence software.				

