



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

Wednesday 16 May 2007 (afternoon)	Candidate session number						
1 hour	0	0					
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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. A school has a local area network (LAN). When students work on the computers in their school, they can save their work onto the hard drive on the network server or a USB flash memory drive (memory stick). Some schools provide their students with USB drives at the beginning of the school year.



Source: http://digitalunion.osu.edu/megaconference/www.megaconference.org/images/RadvisionMemoryStick large.gif

(a)	Identify two tasks performed by a network server apart from the storage of users' files.	[2 marks]

(This question continues on the following page)



(Question 1 continued)

with USB drives.		[4
Explain two precaut	tions that a student should take when using US	B drives for
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An author writes IT text books at home using his PC. He illustrates his work with many screen shots and images obtained from web sites, showing readers how to carry out various actions. He sends the images as bitmapped files. He sends his work to the publisher using his broadband

inter	rnet connection.	
(a)	Define the term bandwidth.	[2 marks]
(b)	Describe one advantage and one disadvantage of sending the images as bitmapped files instead of vector graphics files.	[4 marks]

(This question continues on the following page)



2.

(Question 2 continued)

(c)	With reference to one benefit and one problem, explain why there may be advantages and disadvantages for an author when working from home instead of	
	in the publisher's office.	[4 marks]

3. Computer models and computer simulations are often used by businesses to test and train staff. One situation where a computer simulation is used is in the training of airline pilots.



Source: http://www.technology.gov/2020MM/p_Pht040916.htm

a)	Define the term <i>computer simulation</i> .	[2 marks]

(This question continues on the following page)



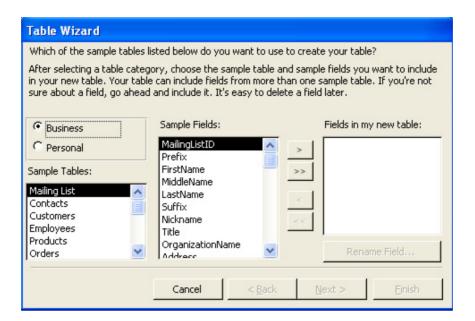
(Question 3 continued)

(b)	Describe two input devices that would be used in a pilot training computer simulation.	[4 marks]
(c)	Explain one benefit and one problem associated with training pilots on simulators instead of using real planes.	[4 marks]
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4. The people who work for a company often have to carry out new tasks on their computers that they have never performed before. They may need training to learn new skills. Some companies pay for training but individuals may choose to undertake training at their own expense.

In some cases, unfamiliar tasks can be performed on computers by using wizards. One example is shown here.



(1)	Identify the type of software that has provided this wizard.	[I mark]
(ii)	Identify one other task that may be performed by a wizard.	[1 mark]

(This question continues on the following page)



(a)

(Question 4 continued)

(b)	Users often get into difficulties when using application software. They may not always know how to make the application do exactly what they want. Apart from using wizards, describe two other IT methods that can help them to use the application software successfully.	[4 marks]
(c)		
	Examine the extent to which it is the responsibility of the company, rather than the employee, to pay for training.	[4 marks]
		[4 marks]

