



88055514

INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY
STANDARD LEVEL
PAPER 1

Monday 21 November 2005 (afternoon)

Candidate session number

1 hour

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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. An office has installed a LAN connected to a file server. This LAN includes one fast colour printer and four black and white laser printers distributed around the office.

(a) Identify **two** peripherals, other than printers, that could be connected to the LAN. [2 marks]

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(b) Describe **two** advantages of having a network of computers in the office instead of several stand-alone computers. [4 marks]

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(Question 1 continued)

- (c) Describe **two** ways in which a network administrator could protect the computers in the network against virus attack. *[4 marks]*

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2. Outback Tours is a company that organizes tours for people in Australia. It uses the spreadsheet below to calculate prices of its tours. *Cost per Person* and costs of *Meals* and *Insurance*, often change. The office workers have copies of the spreadsheet on the hard drives of each of their office computers so that they can keep prices up to date.

	A	B	C	D	E	F	G
1	OUTBACK TOURS						
2							
3	EXTRAS						
4		Description	Cost per day				
5		Insurance	\$10.00				
6		Meals	\$50.00				
7							
8				EXTRAS			
9	Trip ID	Description	Cost per Person	Number of Days	Meals	Insurance	Total Cost
10							(with meals & insurance)
11							
12	1020	Alice Springs Adventure	\$2,500.00	7	\$350.00	\$70.00	\$2,920.00
13	1021	Flinders Hike	\$200.00	2	\$100.00	\$20.00	\$320.00
14	1022	Wildlife Reserve Walk	\$50.00	1	\$50.00	\$10.00	\$110.00
15							
16							

E12 contains a formula that can be expressed as an absolute cell reference.

- (a) (i) Identify this formula. [1 mark]

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- (ii) State **one** advantage of an absolute cell reference over a relative cell reference. [1 mark]

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(Question 2 continued)

- (b) Identify **two** ways in which the integrity of the Outback Tours spreadsheet could be at risk and outline a solution for each.

[4 marks]

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- (c) Describe **two** advantages for Outback Tours of using an electronic spreadsheet over a manual paper system.

[4 marks]

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3. Many websites use cookies to record and store the browsing activity of persons accessing the website.

(a) Identify **two** different browsing activities that could be collected from a cookie by a website. *[2 marks]*

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(b) Describe **one** advantage of a cookie for the owner of the website and **one** advantage for a person accessing the website. Include **one** practical example in each description. *[4 marks]*

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(Question 3 continued)

- (c) Describe **two** concerns that a person accessing the website may have about the use of cookies.

[4 marks]

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4. Expert systems are used by doctors and other medical professionals.

(a) Identify **two** features of any expert system. *[2 marks]*

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(b) Describe **one** way a medical expert system could be used by doctors to diagnose the illnesses of patients. *[2 marks]*

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(c) Explain **one** reason why the diagnostic medical database in part (b) should only be accessed by medical professionals and not be available to the public. *[2 marks]*

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(Question 4 continued)

- (d) Describe **two** reliability issues that must be considered when developing and maintaining a medical expert system.

[4 marks]

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