G	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIO General Certificate of Education Advanced Level	www.papacanbridge
CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
APPLIED INFO	RMATION AND COMMUNICATION TECHNOLOGY	9713/32
Paper 3		May/June 2011 1 hour 15 minutes
	war on the Question Depar	1

Candidates answer on the Question Paper.

No additional materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen.

Do not use staples, paper clips, highlighters, glue or correction fluid.

You may use a pencil for any diagrams, graphs or rough working.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

J

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The number of marks is given in brackets [] at the end of each question or part question.

The businesses described in this paper are entirely fictitious.

This document consists of 18 printed pages and 2 blank pages.



Scenario 1 Questions 1 and 2

www.papaCambridge.com Popular Individual Electronics Ltd (PIE) is an electronics company that is going to develop a new home entertainment system. PIE needs to undertake market research before they produce a prototype which can then be approved for production. The project manager, Derek, has to consider the technical features and produce a financial model.

There are a number of teams involved in producing the prototype, including a hardware development team and a software development team.

			3 scribe how each of these pieces of hardware will be used in the home enterta tem. MP3	
			2	
1	(a)	Des syst	scribe how each of these pieces of hardware will be used in the home enterta	For iner's
		(i)	MP3	ne.
				OM
			[2]	
			USB port	
			[2]	
			Secure Digital Memory card	
			[2]	

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	4
(b)	4 Explain how the company would assess the market for its new product by computer-assisted telephone interviewing.
	[4]
(c)	Explain how ICT would be used to analyse the results from this research.
	[3]

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[3]

	Mary Mary	
	6	
(c)	6 Explain how project management tools could be used to monitor the programmed producing the prototype home entertainment system.	For iner's
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	[4]	

Scenario 2 Questions 3, 4, 5 and 6

www.papaCambridge.com The Bank of Smalltown has branches all over the world. It uses an intranet for the transfer of information between branches. Customers are concerned about the security of their personal data held in the bank's computer systems. When a customer applies for a bank loan an expert system is used to see if the loan can be approved.

The bank has a website for online banking.

The bank uses video conferencing suites for communication. It wishes to support schools by providing the basic hardware and software to enable them to communicate with the bank and with each other using video conferencing.

	they be a second s
	8
3 (a)	8 Describe four ways that the intranet would be used.
	[4]
(b)	Describe the concerns that the customers may have in relation to computer fraud.
	[4]
	[4]

	9 Describe three features you would expect to see on the online banking website page.
(a)	Describe three features you would expect to see on the online banking website page.
	[3]
(b)	Explain an authentication technique that could be used by a customer of the bank in making transactions.
	[3]

		44
		10
(c)	Des its b	10 cribe what is meant by each of the following and explain why the bank uses usiness. VPN
	(i)	VPN
		וכז
	(;;)	[3] VOIP
	(11)	
		[3]
		[0]

(iii)	11 Proxy servers	For iner's
	[3]

	4	
	12 WW. D	
_	12a	
5	12 The bank uses video conferencing suites to arrange meetings between groups of divergence of the schools use their video conferencing facilities to allow groups of students communicate with students at other schools. Compare and contrast these two different uses of video conferencing.	or iner's
	Compare and contrast these two different uses of video conferencing.	Con
	[8]	

	4444	
	13	
6	13 Explain why the use of the expert system for approving a loan would benefit the bank	For iner's
		Secon
	[3]	

Scenario 3 Questions 7, 8 and 9

www.papacambridge.com A Local Government Authority uses ICT in many ways. One of these is a website to provide the residents with up-to-date information. The authority is concerned about the digital divide.

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	15	
7	15 Describe what the residents would use the website for.	For iner's
		Ta.
		Se.com
	[6]	

		16 Explain how technical developments in ICT are reducing the digital divide amore residents.	
8	(a)	Explain how technical developments in ICT are reducing the digital divide amoresidents.	For iner's
			Sec.
			OT
		[5]	

	17 ******* D	
(b)	17 Describe how the Local Government Authority could educate residents in or reduce the digital divide.	brid
		19
	[4]	
	[4]	

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	18	
9	18 The Local Government Authority is concerned about anti-social behaviour when usin Give examples of this type of behaviour and describe how they may be prevented.	For iner's
		'9e.
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	[8]	



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