



## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Advanced Level

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CANDIDATE NAME									
CENTRE NUMBER						CANDII NUMBE			

### APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

9713/03

Paper 3

May/June 2009

1 hour 15 minutes

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.

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.

International Examinations

## al cities.

## Scenario 1 Questions 1 to 4

Rock-ICT is a company that sells CDs, DVDs and books through shops in several cities.

The company has done some market research into the possibility of selling items online. A systems analyst has been brought in to help with this development.

A project management team has been set up to monitor the system before and after it comes into operation.

(a)	Describe how ICT would have been used in the market research which Recarried out.
	[5]
	[5]
(b)	The systems analyst started the design stage following feedback from the market research. Describe <b>three</b> of the tasks done at the design stage apart from designing the
	screen layouts.

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	2	
(c)	The new system will not replace the old shop based system entirely.  Describe <b>two</b> appropriate implementation strategies for the new and old systems together and explain your choices.	For liner's
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		On.
		7
	[4]	

2	(a)	Describe the features that a customer would expect to use on Rock-ICT's websit
		[6]
	(b)	Describe how the company can ensure that customers can obtain help with their online order, if they have a problem.
		[4]

There are social implications in providing online shopping systems. Describe **three** negative effects.

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[6]	
he team in meeting the	

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		[6]
_		
4	Describe how project management software can be used to assist the team in meeting project targets.	:ne
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		[4]

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## Scenario 2 Questions 5 to 7

Karpartco is a manufacturing company which has eight factories who make parts for the motor industry. They often need to develop new components and are sometimes asked to make one-off items.

They frequently use video conferencing to keep Karpartco factories and suppliers in contact with each other.

Karpartco uses LANs within each of its factories. Each factory is connected to the other seven Karpartco factories using a WAN.

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		8
(a)		inkjet printers can be used to produce prototype plastic working models as D/CAM.  Describe how these models are produced by the printer.
	(i)	Describe how these models are produced by the printer.
		I.O.
		[2]
	(ii)	Explain why it is useful to produce these prototype models.
		[2
(b)	Nar	ne <b>two</b> other output devices used in CAD and explain why they are used.
		[4]

	The state of the s
	9  Describe the advantages to the company of using video conferencing.
(a)	Describe the advantages to the company of using video conferencing.
	[2]
(b)	The use of video conferencing has increased rapidly in the last few years.  Describe the recent developments that have led to this increase.
	[5]

	the state of the s
	to scribe how the following components are used in Karpartco's networking systematic hubs
Des	scribe how the following components are used in Karpartco's networking systems
(i)	hubs
	[2]
(ii)	routers
	[2]
(iii)	switches
	[2]
(iv)	telnet.
	[2]

# the routes taken

## Scenario 3 Questions 8 to 10

BrazilParcel is a delivery company which uses an expert system to advise on the routes taken by its delivery vehicles.

Other software is used to:

- help advertise the business
- calculate payrolls
- assist in general administration.

BrazilParcel use an intranet to allow internal communications, but customers are able to access company information from external networks via the internet.

	www.	
	Describe the advantages to BrazilParcel of using an expert system.	
	and a state of the	
(a)	Describe the advantages to BrazilParcel of using an expert system.	For iner's
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		OM
	[2]	
		_
(b)	Describe how the expert system would be set up and maintained.	
	[5]	
	[5]	

(a)	Describe ways in which BrazilParcel could advertise its business using ICT.	3
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	[4	<b>!</b> ]
(b)	Describe how mail merging could be used to enable the company to send personalise communications to its customers.	d
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10	(a)	Apart from security aspects, explain why BrazilParcel uses an intranet for communications.
		rol
		[2]
	(b)	Describe the software security which guards against hacking and unwanted communication from external sources.
		[5]

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