

Cambridge International Examinations

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Cambridge International A Level	Cambridge International Examinations Cambridge International Advanced Level		Oridge Con
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
APPLIED INF	ORMATION AND COMMUNICATION TECHNOLOG	SY.	9713/32

Paper 3

October/November 2014

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, glue or correction fluid.

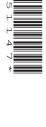
You may use an HB pencil for any diagrams, graphs or rough working.

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.



Scenario 1 Questions 1, 2, 3, 4 and 5

International Exploration & Mining (IEM) is a multi-national company specialising in mineral prospec

Fergal is employed by the company as an inspector to visit and inspect geological sites in search of deposits of mineral ores.

Fergal takes a laptop computer when visiting a potential site and uses it to record his findings.

IEM has created an expert system for use by their inspectors and geologists who can access it using the Internet and the company network.

He uses his own knowledge and the company's expert system to predict the likelihood of a particular mineral ore being found in the location.

Fergal connects the laptop to the company network using the Internet to send back his findings and to keep in regular contact with the company and other inspectors.

The company also uses Fergal's findings and those of its other inspectors and geologists to construct computer models to predict where mineral ore deposits might be found.

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orospect	he advantages and disadvantages to the inspectors of using an expert system ng.	1
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www.PapaCambridge.com Describe three steps that are taken when constructing a computer model of an 3 prospected. Describe the purpose of these network components in the company network. (a) hub[2] (b) switch (c) wireless access point (d) firewall

(a)	Explain how each protocol shown below could be used to obtain information from network.
	http
	FTP
	[4]
(b)	Describe two ways Fergal can ensure that his findings are kept secure while being transferred to the company.
	1
	2
	[Δ]

www.PapaCambridge.com (c) Describe how Fergal could use the Internet for keeping in contact with the comp other company inspectors.

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Scenario 2 Questions 6, 7 and 8

Many people use online booking systems, online auctions and online transaction services.

A government agency has been set up to attempt to reduce the antisocial use of ICT and computer fraud.

It is developing new security software to try to make people more confident about the security of their personal data when using these services.

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(a) Dis	scuss the benefits and drawbacks of using the Internet to book tickets.
(ii)	
	Describe the possible effects on victims of computer fraud.
	Describe the possible effects on victims of computer fraud.
	Describe the possible effects on victims of computer fraud.
	Describe the possible effects on victims of computer fraud.
	Describe the possible effects on victims of computer fraud.

10
Describe, with examples, what is meant by 'antisocial use of ICT'.

8	Describe how timeline software would help the agency when creating its new security		
	To the state of th		
	[2]		

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Scenario 3 Questions 9, 10 and 11

A regional government has asked Iqbal (a website designer), to create a new website which will inclacilities for:

- an online focus group
- weblogs
- wikis.

A new road is to be built through the region. The website facilities will allow citizens to register their details and to have more influence on their political representatives during the building of this road.

Before the website is implemented, Iqbal must be confident that there are no security issues and must appoint moderators for the online focus group.

9	Describe three different security problems and three different solutions that Iqbal meeting the website.
	Problem 1
	Solution 1
	Problem 2
	r iobieiii 2
	Solution 2
	D. I.I 0
	Problem 3
	Solution 3
	[6]
10	Describe how, other than using focus groups, political representatives could use the Internet to communicate with, and gather feedback from, citizens.
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Iqbal will also organise an online focus group to discuss the building of the new road. (a) Describe how an online focus group could be organised.		
(a)	al will also organise an online focus group to discuss the building of the new road. Describe how an online focus group could be organised.	
	[2]	
(b)	Discuss the advantages and disadvantages of using an online focus group to find out what people think about the plans for the road.	

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