



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Advanced Level

Origin Com

CANDIDATI NAME	E
CENTRE NUMBER	



APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

9713/33

Paper 3

October/November 2011

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.

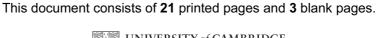
You may use a pencil for any diagrams, graphs or rough working.

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.



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Scenario 1 Questions 1 and 2

www.PapaCambridge.com Cambridge Zoo is expanding its activities to bring in more visitors. The Zoo Director has decided to introduce a website for visitors that enables several functions to be carried out. Tickets can be bought in advance to be used with a bar code reader linked to an automatic gate.

In the visitor centre there is an expert system that can be used to identify animals.

A new building will house animals who hunt in the daytime and at night. The director wants it to be open in time for the peak visitor season. The new animal house will have a computer controlled environment.

1

(a)	Exp	plain the advantages to the zoo of allowing visitors to buy tickets in advance.	10
			•••
			•••
	•••••	[3]
(b)	Αv	visitor uses a touch screen to access the expert system. Describe:	
	(i)	the format of the input screen, giving an example of a suitable question,	

(ii)	the output after the visitor has input all of the details.
	[3]

(c)	Describe three security problems that the Zoo Director will have to consider wheelsite goes online. For each of these problems suggest a solution.
	[6]

		Describe features of Computer Aided Design (CAD) software that could be to planning and creating a design for the new building.	
2	(a)	Describe features of Computer Aided Design (CAD) software that could be a planning and creating a design for the new building.	For iner's
			Se.com
		[5]	

	Describe how project management software would be used in the production new building.	
(b)	Describe how project management software would be used in the production new building.	For iner's
		age Co
		TH
	[4]	

	Why.
	8
(c)	Describe four sensors and how they would be used for monitoring conditions new building.
	[4]

Scenario 2 **Question 3**

www.PapaCambridge.com The Midland Examining Group (MEG) is investigating the use of computer marked examinations.

3	(a)	Describe how a student would give their answers to questions.	2
			•
			•
			•
		[2]	41

(b)	Discuss the advantages and disadvantages to the examination group of using system.
	[7]

Scenario 3 **Question 4**

www.PapaCambridge.com The National Meteorological Service uses a supercomputer to produce weather forecasts.

		May
		13
4	(a)	Compare and contrast a PC (personal computer) and a supercomputer.
		Compare and contrast a PC (personal computer) and a supercomputer.
		[4]

(b)	Explain how supercomputers are used to produce weather forecasts.	For iner's
		Se. COM
		٠.
	[5]	

Scenario 4 Questions 5 and 6

ht simulators to with

Goshawk Airways provides flights throughout the Middle East. They use flight simulators to train their pilots.

Goshawk Airways offers online booking through their website which is held, together with customer details, on a server.

5	(a)	Describe how four output devices of the simulator are used to simulate the actual experience.
		[4]
	(b)	Explain why Goshawk Airways uses a flight simulator rather than using real aircraft to train pilots.
		[4]

		Why.
		17 A. D.
	(c)	Describe how the simulator would enable pilots to experience the failure of an enable pilots to experience the enabl
		[4]
6	(a)	Explain three benefits to the airline of offering online booking.
		[3]

		42
		18 A.
(b) E	Exp Gos	lain how each of the following are used to restrict access to customer delahawk Airways' server.
(i	i)	firewall
		lain how each of the following are used to restrict access to customer detachance shawk Airways' server. firewall
		[2]
(i	ii)	digital certification
		[2]
(i	iii)	encryption
	-	
		[2]

	www.
	19
(c)	Explain the different functions of a file server and a typical PC.

Scenario 5 **Question 7**

www.PapaCambridge.com Bangalore Audio Company (BAC) distributes electronic goods to the south of India. It uses ICT systems to assist with all aspects of the business. Just in time (JIT) is used to order goods from suppliers and despatch goods to customers.

Damaged goods are sold on auction pages which are part of the BAC website.

(a)	Explain how stock control and JIT would be used by BAC.
	[4]
(b)	Describe the features you would expect to see on BAC's auction website.
(b)	Describe the features you would expect to see on BAC's auction website.
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(b)	Describe the features you would expect to see on BAC's auction website.
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