



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Advanced Level

CANDIDATE  
NAME

CENTRE  
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**APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY**

**9713/32**

Paper 3

**October/November 2010**

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



**Scenario 1**  
**Questions 1 to 3**

*For  
Examiner's  
Use*

Braemart Supermarkets are a multinational company. They use bar codes for stock control and finding prices and product information at point of sale terminals (POS) in each of their stores.

The company is concerned about the cost of stock being wasted. They are looking into a 'just-in-time' system for stocking the stores.

Their Cairo store has used computer simulations to determine the number of checkouts required to minimise customer waiting times.

The supermarket staff are trained on a regular basis regarding new procedures and new technologies.











**Scenario 2**  
**Questions 4 to 6**

*For  
Examiner's  
Use*

The Asian International Insurance Company (AIIC) uses an expert system. Their insurance advisors use it to conduct risk assessments on customers.

The company is developing new products. They need to do some research to find out if a market exists for these new products.

AIIC's products are listed on a global insurance website which enables customers to choose the best insurance for their needs.

Since the head office is in a very hot country, an air conditioning system is installed which is fully computer-controlled.





5 The air conditioning system in the office is controlled by a computer system.

(a) Describe the hardware needed to allow control of the air conditioning system.

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.....  
..... [2]

(b) Explain how the computer and hardware interact to enable effective control of the air conditioning system in the office.

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..... [3]

For  
Examiner's  
Use





**Scenario 3**  
**Questions 7 to 8***For  
Examiner's  
Use*

A passport office has an intranet to enable internal communications.

They also have a website where customers can get information and also fill out forms (e.g. passport applications). The intranet links into the website. The data transferred is sometimes subject to corruption and must be checked. One method which is used by the passport office is parity checking.

The passport office has invested in the latest technology to allow reliable customer services and ensure good network security.













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