



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Advanced Level

CANDIDATE  
NAME

CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY**

**9713/01**

Paper 1

**May/June 2009**

**1 hour and 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.

This document consists of **12** printed pages.



**Scenario 1**  
**Questions 1 and 2**

Midtown Bank in the UK operates an online banking system. Some customers have had difficulties when using this system and so the bank has introduced phone banking. The bank has a call centre in Mumbai, India.

When using phone banking, customers are asked to provide the same personal details as when using the online system. Customers are asked to provide three characters from their password. These are never the same three characters in successive logins.

The bank stores a lot of personal information about its customers.

1 (a) Identify **two** items of information, other than their password that customers might be asked to provide when using the systems.

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..... [2]

(b) Give **two** reasons why customers are asked to type in only three characters from their password.

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..... [2]

(c) Explain why the company has its call centre in Mumbai and not in the UK.

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..... [2]

(d) Explain why a customer might be frustrated when using an overseas call centre.

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..... [2]





**Scenario 2**  
**Questions 3 and 4**

The July 23<sup>rd</sup> Hospital in Cairo is improving its existing computer system to make it more efficient. They currently have separate systems for storing:

- staff records
- payroll records.

One single database is required which will store all this data.

A systems analyst is being employed to analyse the existing system and then design a new system.









**Scenario 3**  
**Question 5**

East African Motors manufacture cars in Nairobi. Their factory is fully automated using robot arms to assemble cars.

The main car sales showrooms are in Nairobi and Mombasa in Kenya, Kampala in Uganda and Dar es Salaam in Tanzania. Their head office is in Nairobi. Often the sales people feel that certain updates should be made to the website by the company's programmers. However as many of the programmers work from home they can sometimes be difficult to contact.

The sales people have suggested that the company provide the programmers with appropriate video conferencing equipment. This would enable them to hold regular meetings with the programmers.



(ii) Describe the steps the programmer would take to participate in the conference.

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..... [3]

(c) Discuss the advantages and disadvantages to the programmer of working from home.

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