

**PLEASE NOTE THAT THIS VERSION WAS
UPDATED 27/06/06 AND SUPERCEDES ANY
PREVIOUS VERSION.**

Centre Number	Candidate Number	Name
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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education
Advanced Level and Advanced Subsidiary Level

**APPLIED INFORMATION AND
COMMUNICATION TECHNOLOGY**

9713/01

Paper 1

For Examination from 2008

Specimen Paper

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.

Answer **all** questions.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **10** printed pages.



Scenario 1

South African Motors is a car engine manufacturing company which has just started manufacturing complete cars. They are looking to sell cars throughout Africa. The factory is in East London and they have a main office in Johannesburg, where the manager, Simphiwe, organises the day to day running of the business. The main office employs a lot of workers to produce the company payroll for all the workers in East London and for those in Johannesburg. There is also a human resources department in the main office in Johannesburg which keeps all the files on each worker.

Simphiwe has asked Capetown Publicists, an advertising company, to publicise the business on a large scale. The publicist company employs 4 people including the manager Mosola. They need to have regular meetings to discuss their progress with various jobs. This is difficult as they are very rarely in the office together as they all do a lot of their work at home.

- 1 (a) The company uses robotic arms to control a number of processes. Give **two** reasons why they use these robotic arms.

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- (b) Describe how robotic arms are used in two of these processes.

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- (c) Describe how the movements of the robotic arm were originally programmed into the computer.

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(d) The company has to follow government data protection rules when it comes to storing data about the workers. One of these rules is that the company has to keep the data secure. Describe **three** other rules which the company must obey.

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(e) Explain why it is necessary to have data protection rules.

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Scenario 2

After many successful years of trading, Shazad supermarkets are extending their services to include a home shopping service. Customers will log on to the service using their home computers, choose the products they wish to buy, and then these will be delivered to their home for a small extra charge. The local supermarket will have workers who will go round the store collecting the goods together so that home delivery can take place.

- 4 (a) Describe the minimum hardware and software requirements of the home computer which will be used in this system and why they are needed.

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- (b) Describe what effect the introduction of the system will have on the working opportunities and practices for the supermarket employees.

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