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Cambridge International Advanced Level

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APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

9713/31

Paper 3

May/June 2015

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.

This document consists of **15** printed pages and **1** blank page.

Scenario 1

Questions 1, 2 and 3

Computer Assist is a company that provides computing facilities for disabled people.

The computers allow disabled people to access the internet to view websites and to use commercial and government online services.

The company provides additional, specialised hardware for its computers and specialised software is installed for use by disabled people.

3 Describe **three** features of some websites that could make it difficult for viewing by visually impaired people.

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Scenario 2**Questions 4, 5, 6, 7 and 8**

Desirable Outfits sells goods from a number of shops.

The shops are connected to a computerised stock control system using Point of Sale (POS) terminals.

Desirable Outfits supplies its shops from a central warehouse and uses a computerised 'just-in-time' stock control system.

Desirable Outfits wants to increase its sales by advertising in the media using newspapers, radio and television.

Desirable Outfits uses mailmerge to contact selected customers about a new clothing range.

Mahmoud has been invited for interview at head office and will need to travel by train.

7 (a) Describe how hardware and software are used in a computerised automatic stock control system linked to POS terminals.

(i) Hardware
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.....[2]

(ii) Software
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.....[2]

(b) Describe the processing carried out by a computerised stock control system.

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8 Describe **three** ways that Desirable Outfits could carry out market research to find out the effectiveness of its advertising in the media.

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Scenario 3**Questions 9, 10, 11 and 12**

Colin is a network administrator responsible for a company network that allows employees to access its facilities from within the company buildings and from outside. The company uses dedicated cabling within its buildings.

The network is used by employees who work in the company buildings and there is an extranet for use by employees who work from home and when travelling on business.

Various protocols are used to transfer data over a network.

Colin uses Telnet and Secure Shell (SSH) for maintaining and administering the computers and servers on the network. Telnet and SSH are network protocols used in some client server systems.

10 Describe what is meant by a client server system.

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11 Explain why Colin prefers to use SSH rather than Telnet for administering the network.

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