



Tuesday 14 January 2014 – Morning

LEVEL 1/2 CAMBRIDGE NATIONAL IN ICT

R001/01 Understanding Computer Systems

Candidates answer on the Question Paper.

OCR supplied materials:

- Clean Copy Case Study

Other materials required:

None

Duration: 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- This document consists of **12** pages. Any blank pages are indicated.

SECTION A

The questions in this section are based on scenario 1 in the case study and your background research.

Answer **all** questions.

- 1 The office has three desktop computers and one laptop computer.

- (a) Tick **one** box in each row of the table to show whether the statement **best** describes a desktop computer or a laptop computer.

Statement	Desktop computer	Laptop computer
Easily portable		
Light weight		
Needs to be plugged into an electricity supply		
Separate keyboard		

[4]

- (b) The laptop used by the Data Team needs to connect to Austin School's network.

Identify **one** device needed to connect the laptop to the network.

..... [1]

- (c) A user must enter a username and password to access the school network.

- (i) Describe how the network operating system uses the username.

.....

 [2]

- (ii) State why a password is needed when logging onto the school network.

.....
 [1]

- (iii) Give **one** reason why this password should be changed regularly.

.....
 [1]

3

- 2 All four members of the Data Team have complained that they suffer from neck pain when using the laptop computer.

- (a) State **one** way members of the Data Team could reduce the risk of suffering from neck pain when using a laptop computer.

.....
..... [1]

- (b) The Data Team think that the Health and Safety at Work Act may apply to this situation.

Describe **one** responsibility that the Health and Safety at Work Act places on **employers** who provide staff with computer equipment.

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

Question 3 begins on page 4

..... [9]

5

- 4 At the end of every school year, primary schools from across the city send to Austin School the data they store about all their Year Six students.

(a) Explain why sending data for **all** their students may be illegal.

.....

.....

.....

..... [2]

(b) Test results for students are manually added to The Data Rich Information Management System.

Identify **two** input devices that could be used to add test results to the information management system.

1

.....

2

.....

[2]

- 5 Austin School has been advised that it needs to back up the data it stores in the information management system.

(a) Explain why it is necessary to back up data.

.....

.....

.....

..... [2]

(b) Austin School is considering using an automated back-up system.

Explain **one disadvantage** to Austin School of using an automated system to back up data.

.....

.....

.....

..... [2]

The questions in this section are based on scenario 2 in the case study and your background research.

Answer **all** questions.

- 6** Stephen will design and create the poster for the school play. The Head of Art has already created the graphics for the poster.

- (a)** Stephen will be given a hard copy of the graphics for the poster.

Which output device is **most** suitable for creating a hard copy of these graphics?

..... [1]

- (b)** Stephen is going to draft the wording for the poster and send it to Maria in a word processing file for feedback. When she has completed her review, she will return the file to Stephen so that he can finalise the poster.

Explain how Maria and Stephen can use the collaborative editing tools in a word processing package to do this efficiently.

..... [6]

7

7 Maria will design the ticket for the school play.

- (a) Maria would like to use an image that she has found on the internet as the background for the ticket.

Identify the Act that protects the rights of the artist who created the original image that Maria wants to use.

..... [1]

- (b) Give **three** actions that Maria must take before she can legally use the image.

1

.....

2

.....

3

.....

[3]

- (c) Maria also wants to draw an image to use on the ticket.

Explain **two** possible reasons why Maria might prefer to use a graphics tablet rather than a mouse when creating digital graphics.

1

.....

.....

.....

2

.....

.....

.....

[4]

8

- 8 Data, including the name and phone number of each customer who buys a ticket for the play will be stored on a database. The name will then be automatically included on each ticket.

(a) Identify the procedure that will be used to add the names stored on the database to the tickets.

..... [1]

(b) Describe **one** benefit of including the name on the ticket.

.....

.....

.....

..... [2]

(c) State **one** possible reason why Austin School collects the phone number of each customer.

.....

..... [1]

(d) Identify a suitable period of time after which Austin School should delete the data for each customer from its records.

Explain why this is a suitable period of time.

Period of Time:

Explanation:

.....

.....

.....

.....

.....

[3]

9

- 9 Austin School needs an online data capture form on its website that applicants for tickets can complete and submit electronically.

In the box below design a suitable online data capture form.

Marks will be awarded for:

- items to be included
- good use of space
- fitness for purpose
- annotations to justify decisions.

[9]

END OF QUESTION PAPER

10

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